

2021-2022



# Catalog



# College



MESALANDS  
Community  
COLLEGE

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# Mesalands Community College

2021-2022 Catalog

911 South Tenth Street  
Tucumcari, NM 88401  
(575) 461-4413  
[www.mesalands.edu](http://www.mesalands.edu)



## LEAD THE WAY AT MESALANDS COMMUNITY COLLEGE

If you are returning to school after a long absence, or would just feel better if you had a little extra support, start this catalog with the Student Affairs section on page 23. You'll have a better understanding of what's available to help you define and achieve your goals.

If you know you're headed for a four-year degree, check out the Educational Program offerings beginning on page 35, and then visit the Student Affairs section for information on how to design a successful program of study.

If you need to earn your high school equivalency or improve your English, math or reading skills, check out Academic Affairs on page 28. These classes build a firm foundation of skills, whether you plan to continue in college or enter the job market.

If you're looking for the shortest route to a rewarding career, some of our applied science programs may appeal to you, such as Farrier Science, Artistic Silversmithing, or Wind Energy Technology.

If you have the leisure time to pursue a lifelong interest, you may be interested in some of our special programs, such as Paleontology or Fine Arts, while pursuing an Associate of Arts Degree.

If you're about to graduate from high school and are unsure of what lies ahead, consult pages 15 and 16. An education can make the difference in earning power, career satisfaction, and achieving your life goals!

Mesalands Community College is accredited by The Higher Learning Commission, a Commission of the North Central Association of Colleges and Schools, 30 North La Salle St., Suite 2400, Chicago, IL 60602-2504, (800) 621-7440; [info@ncacihe.org](mailto:info@ncacihe.org)

Every effort has been made to ensure accuracy of the information at the time this Catalog was prepared. However, all information is subject to change at any time by proper administrative procedure and without prior notice, obligation, or liability (including statement on tuition, fees, programs, course offerings and graduation requirements).

### Bienvenidos

Bienvenidos a su colegio de la comunidad de Tucumcari. Mesalands Community College es una institución educativa que le ofrece varios y distintos programas de instrucción al nivel colegial. Para obtener asistencia en español, llame (575) 461-4413.

August '21						
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2021-2022	
FALL SEMESTER 2021	
August 12	Enrollment (9 am - 6 pm)
August 13	Last day for 100% refund
	Late enrollment fees assessed
August 16	Classes Begin
August 17	Student Orientation
August 20	Last day for 75% refund
August 27	Last day to add/drop
	Last day for full textbook refund
	Last day for 50% refund
September 3	Last day for 25% refund
	NO refunds after this date
September 6	Labor Day (College closed)
October 4-8	Mid-terms week
October 8	Last day to petition to graduate
October 11-15	Mid-terms advisement
October 22	Last day to withdraw
October 29	Assessment Day
November 9	Early registration for spring semester
November 22-23	Student Fall Break (no classes)
November 24-26	Thanksgiving (College closed)
November 30-December 2	Finals week
December 6	Grades due by 5 pm
December 20-31	Holiday Break (College closed)
SPRING SEMESTER 2022	
January 13	Enrollment (9 am - 6 pm)
January 14	Last day for 100% refund
	Late enrollment fees assessed
January 17	Martin Luther King, Jr. Day (College closed)
January 18	Classes Begin
January 19	Student Orientation
January 21	Last day for 75% refund
January 28	Last day to add/drop
	Last day for full textbook refund
	Last day for 50% refund
February 4	Last day for 25% refund/no refunds after this date
March 7-11	Mid-terms week
March 11	Last day to petition to graduate
March 14-18	Mid-terms advisement
March 21-25	Spring Break (College closed)
March 31	Assessment Day
April 1	Last day to withdraw
April 12	Early registration of summer I, II, and III
	Early Registration for fall semester
April 15	Spring Holiday
May 2-5	Finals week
May 6	Graduation
May 9	Grades due by 5 pm
SUMMER SEMESTER 2022	
Summer 1	4 Week Session, May 23-June 17
Summer II	8 Week Session, May 23-July 14
Summer III	4 Week Session, June 20-July 14
May 19	Summer I and II enrollment (9 am - 5 pm)
May 20	Late enrollment fees assessed for
	Last day for 100% refund for Summer I and II
May 23	Classes begin for Summer I and II
May 27	Last day to add/drop for Summer I
May 30	Memorial Day (College closed)
May 31	Last day to withdraw for Summer I
June 3	Last day to add/drop for Summer II
June 16	Summer III enrollment (9 am - 5 pm)
June 17	Last day of classes for Summer I
	Late enrollment fees assessed for Summer III
	Last day for 100% refund for Summer III
June 20	Classes begin for Summer III
	Grades due by 5 pm
June 24	Last day to withdraw for Summer II
	Last day to add/drop for Summer III
June 27	Last day to withdraw for Summer III
July 4	Independence Day observed (College closed)
July 15	Last day of classes for Summer II and III
July 18	Grades due by 5 pm for Summer II and III

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College Closed



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# ABOUT THE COLLEGE

## MISSION

Mesalands Community College is an institution of higher education that promotes student learning through quality education and services while fostering personal growth, leadership, and opportunity to a culturally diverse community.

## GOALS

The goals of Mesalands Community College are to provide:

- An environment where learning is appreciated, encouraged, and assessed.
- Academic and technical programs for qualified individuals to enhance their lifelong educational opportunities, with an emphasis in a general core base of knowledge.
- Accessible, multi-faceted services to qualified participants.
- Opportunities to develop leadership skills and achieve personal growth by valuing academic and social responsibility.
- Quality community service programs responding to the diverse needs of the region.

## GENERAL EDUCATION PHILOSOPHY

One of the goals of higher education is to prepare students with the cultural and social skills which will enable them to participate actively in our society. General education courses are intended to introduce students to a body of knowledge that gives meaning and cohesion to our society, in preparation for life-long learning.

The general education requirements are also intended to prepare the community college student with the academic background and skills to successfully pursue more advanced degrees at colleges and universities and/or to be more successful in a career. To that end, Mesalands Community College has incorporated into each degree and applied science certificate an institutional core of general education.

The College has identified three General Education competencies that all Mesalands Community College graduates should demonstrate upon completion of a degree. General Education competencies are delivered and assessed in specific, identified courses and reinforced and further assessed in discipline courses.

These competencies represent the most deeply held values of the College, and are as follows:

**Communication:** Students will read, write, listen and use verbal skills to organize and communicate information and ideas in personal and group settings.

**Quantitative and Scientific Reasoning:** Students will demonstrate mathematical principles and scientific reasoning by applying appropriate methods to the inquiry process.

**Critical Thinking:** Students will identify, evaluate and analyze evidence to guide decision making and communicate their beliefs clearly and accurately.

## HISTORY

Mesalands Community College was established as Tucumcari Area Vocational School (TAVS) under the Area Vocational School Act of New Mexico during the thirty-third Legislative Session of the State of New Mexico. In January 1979, an act of the Legislature authorized the establishment of an area vocational school in Tucumcari (Statutory Authority: Sections 21-17-1 through 21-17-17 NMSA 1978). The school was authorized to offer programs of vocational education leading to certificates and diplomas.

In November 1993, the institution was authorized by the New Mexico Commission on Higher Education to offer Associate of Applied Science degrees in Business Administration and Computer Information Systems.

In June, 1994, the Commission on Higher Education authorized the College to offer the Associate of Applied



Science degree for each of its technical/vocational programs. The degree programs were implemented in the fall semester of 1994.

In 1994, the Board of Trustees authorized Tucumcari Area Vocational School to begin doing business as Mesa Technical College in order to more accurately represent the institution to its varied constituents as a small community college.

In the fall semester of 1995, Mesa Technical College implemented a pre-collegiate studies program and expanded its course offerings in general education. In the spring semester of 1996, the College began expanding its offerings via distance learning; including the Electronic Distance Education Network (EDEN), a cooperative effort of the universities of New Mexico, PBS, and the Internet.

In the spring semester of 1996, the College developed programs in paleontology and geology. Mesalands Dinosaur Museum and Natural Science Laboratories were planned, based on a partnership that developed between the College and the community in recognizing, owning, and promoting this region's rich heritage as one of the premiere deposits of fossilized ancient life. The community continues to donate considerable time, energy, and resources to the museum for cataloging specimens and providing sites for further exploration. An outgrowth of planning for separate funding of the museum resulted in the establishment of Mesa Technical College Foundation, Inc., for charitable, scientific, and educational purposes.

On July 1, 1996, Mesa Technical College came under the direction of a new president, Dr. Phillip Barry, who instituted a concerted effort in strategic planning - a prerequisite to addressing institutional challenges and implementing effective change. The College's new direction has manifested itself in significant changes; including the implementation of student assessment, institutional effectiveness, and curriculum development. The institution's mission and goals were reviewed and revised; appropriate to Mesa's new effort toward community college status.

The president also launched an intensive effort to earn accreditation from The Commission on Institutions of Higher Education of the North Central Association (NCA) of Colleges and Schools. Administration, faculty, and staff set forth on a fast track to compress the two-year process normally needed to earn a site visit from NCA into a period of less than one year. In August, 1997, these efforts were rewarded when NCA granted Mesa Technical College candidacy for accreditation. In August of 1999, Mesa was granted the status of initial accreditation by NCA; at which time the state allowed the College to

begin offering the Associate of Arts degree. In 2004, Mesalands Community College received 10 years of accreditation from the Higher Learning Commission, a Commission of North Central Association of Colleges and Schools.

In the fall of 1998, the College launched a new inter-collegiate rodeo program in response to the desires of its students and the locale in which the College is situated. The success of this program led to the establishment of a livestock judging team in 2001.

With the College continuing to grow and mature, the College's name was changed to more adequately reflect its mission. On September 11, 2001, the Board of Trustees renamed the institution Mesalands Community College.

In 2004, the College took to the airwaves when it designed and launched its Mesalands Telecommunication Network (MTN) and implemented Digital Interactive Television (DITV). Then, in 2005, a Spanish language outreach radio program, "La Voz," began airing twice weekly. That same year saw Building Trades start.

A new expanded Health and Wellness Facility was added to Building A in 2007.

The North American Wind Research and Training Center was initiated in 2005. A commercial-grade, 1.5 megawatt General Electric wind turbine was erected on campus in 2008. During fall semester the same year, classes in Wind Energy Technology were initiated.

In the spring of 2010, Building G was expanded to include the President's Office, the Board of Trustees' Conference Room, four new classrooms, and the Bookstore.

In the fall of 2010, the North American Wind Research and Training Center, a 27,000 square foot building, was dedicated.

In the spring of 2011 operations began in the new Wind Center.

In June 2011, Dr. Phillip O. Barry, President of Mesalands Community College, retired after 15 years of dedicated service.

On July 1, 2011, a new President was hired. In January 2013, the College began the third Presidential Search Process.



On July 11, 2013, after an extensive nationwide search, the Board of Trustees hired Dr. Thomas W. Newsom, as the next President of Mesalands Community College.

## THE MESALANDS AREA

Tucumcari, home of Mesalands Community College, was born out of a railroad construction camp in 1901 when the Rock Island Railroad was pushing a line toward the west coast. Merchants, gamblers, saloonkeepers, and dancehall girls from the rip-roaring cowtown of Liberty dismantled their establishments and moved three miles south to take advantage of the payrolls of the hard-working, hard-playing railroad gangs. At first, the railroad camp was called Six-Shooter Siding.

After Indian Territory was opened in Oklahoma, the mesalands area surrounding Tucumcari got an overflow of homesteaders who had arrived in Indian Territory too late to get land. By 1907, there were 20 small towns scattered about Tucumcari. But it was a hardscrabble life for a dryland farmer during the Great Depression and the Dust Bowl Era. Most of the towns reverted to cow pastures.

The area owes its life to a dam across the South Canadian River that was authorized in 1935 and completed in 1940; bringing irrigation from Conchas Lake and the Canadian River to some 45,000 to 60,000 acres of farmland around the mesalands. As cow pastures were broken up and sold for irrigated farms, many of the ranchers were replaced by farmers.

## THE CAMPUS

Mesalands Community College is situated at 911 South Tenth Street in Tucumcari, New Mexico, approximately 100 miles west of Amarillo, Texas, and 168 miles east of Albuquerque, New Mexico. Tucumcari is located in the eastern part of the state and is surrounded by scenic mesas. It is recognizable by its landmark, the 5,000-ft. butte known as Tucumcari Mountain. Interstate Highway 40 and U.S. Highway 54 converge in the town making it a popular tourist site.

The campus of Mesalands Community College is positioned on 23 acres, with room for future expansion. The main campus is comprised of six buildings, with additional buildings located at other sites off the main campus. The College currently operates the following facilities:

### Building A:

- Administrative offices, including the offices of Enrollment Management, Business, Student Affairs, Financial Aid, Recruiting and Academic Affairs

- Arts and Sciences
- Business Administration
- Career Services Center
- College Library
- Computer Information Systems
- Computer Laboratories
- Conference Facilities
- Distance Education
- Educational Services Center
- Health and Wellness Facility
- Off-Campus Programs
- Mesalands Community College Foundation, Inc.
- Public Relations Department
- Science Laboratory
- Student Commons
- Telecommunications Center

### Building B:

- Building Trades

### Building C:

- Artistic Silversmithing
- Maintenance
- Small Business Development Center
- Welding Laboratory

### Building D:

- Animal Science/Agri-Business
- Farrier Science
- Fine Arts
- Intercollegiate Rodeo

### Building E:

- Computer Laboratory
- North American Wind Research and Training Center
- Wind Energy Technology

### Building F: (Located at the corner of First Street and Laughlin Avenue)

- Mesalands Community College's Dinosaur Museum
- Natural Sciences Laboratory
- Museum Shop
- Classrooms

### Building G:

- Academic Classrooms
- Board Room
- College Bookstore
- Institutional Development
- Personnel
- President's Office

### Building H: (Located on Camino del Coronado)

- Horse Complex
- Rodeo Facilities

The College has developed partnerships with Quay County for the use of a professional rodeo arena. Building H consists of 70 horse stalls for student rental, and is adjacent to the arena; which is located within the Quay County Fairgrounds three blocks from the College on Camino del Coronado.

## AUTHORIZATIONS

### NEW MEXICO HIGHER EDUCATION DEPARTMENT

Mesalands Community College is authorized by the New Mexico Higher Education Department to offer degrees and certificates. The Department brings a statewide perspective in recommending and establishing policy direction and providing leadership in higher education within New Mexico. Mesalands Community College's general education courses are included in the New Mexico Higher Education Department matrix of courses for articulation among two and four-year colleges in the state. Information may be found on the Higher Education Department's web page: [www.hed.state.nm.us](http://www.hed.state.nm.us). Students from Mesalands Community College have been successful in transferring credits and transitioning to four-year colleges within the state.

### VETERAN'S ADMINISTRATION

The College is approved by the New Mexico State Approving Agency (SAA) to train veterans and other eligible persons to receive GI Bill® education benefits under the provisions of 38 Code of Federal Regulations, §21.4253, Title 38, United States Code 3675.

### MEMBERSHIPS

Mesalands Community College, as an involved community institution of higher education, maintains memberships in many organizations, including the following:

- American Association for Higher Education
- American Association for Women in Community Colleges
- American Association of Collegiate Registrars and Admissions Officers
- American Association of Community Colleges
- American Association of Museums
- American Farriers Association
- American Library Association
- AMIGOS
- Association for Career and Technical Education
- Association for Supervision and Curriculum Development
- Association of College and Research Libraries
- Association of Community College Trustees
- Association of Small Business Development Centers
- College and University Professional Association for Human Resources
- Council of North Central Two-Year College
- Council for Higher Education Computing Services
- Fulbright Association
- Hispanic Association of Colleges and Universities
- Mountain Plains Adult Education Association
- Mountain Plains Museum Association

- Mountain States Association of Community Colleges
- National Academic Advising Association
- National Art Educators
- National Association of Colleges and Employers
- National Association of College and University Business Officers
- National Association of College Stores
- National Association of Student Financial Aid Administrators
- National Association of Student Personnel Administrators
- National Business Education Association
- National Council of Marketing and Public Relations
- National Intercollegiate Rodeo Association
- National Safety Council
- New Mexico Adult Education Association
- New Mexico Art Education Association
- New Mexico Association of College Registrars and Admissions Officers
- New Mexico Association of College Stores
- New Mexico Association of Museums
- New Mexico Association of Student Financial Aid Administrators
- New Mexico Higher Education Department
- New Mexico Education Council
- New Mexico Independent Community Colleges
- New Mexico Library Association
- New Mexico Mathematical Association of Two-Year Colleges
- New Mexico Professional Horseshoers Association
- New Mexico State Network of Small Business Development Centers
- North American Transportation Management Institute
- Rocky Mountain Association of Collegiate Registrars and Admissions Officers
- Rural Community College Alliance
- Society for the Preservation of Natural History Collections
- Southwest College Bookstore Association
- Southwestern Association of Student Financial Aid Administrators
- Texas Association of Schools of Art
- The Higher Learning Commission, a Commission of the North Central Association of Colleges
- Western Association of College and University Business Officers

### ACCREDITATION

Mesalands Community College is accredited by The Higher Learning Commission, a Commission of the North Central Association of Colleges and Schools, 30 North La Salle St., Suite 2400, Chicago, IL 60602-2504, (800) 621-7440; [info@ncacih.org](mailto:info@ncacih.org)

## TRANSFER AMONG NEW MEXICO HIGHER EDUCATION INSTITUTIONS

To facilitate transfer of students and course credits among New Mexico's colleges and universities, the state's public institutions of higher education are required to accept transfer courses taken within approved modules of lower-division course work and apply them toward degree requirements. Several transfer guides have been developed through collaboration with New Mexico's public postsecondary institutions, consistent with requirements of state law (SB 161). Students enrolling for first year or second year study at a New Mexico institution who wish to prepare for possible transfer into a degree program at another institution are advised to take these courses during their freshman and sophomore years.

### Student Responsibility

New Mexico's colleges and universities have collaborated to produce guides to assist students who plan to transfer before they complete a program of study. Course modules are designed to help students select courses carefully so that they may transfer with little or no loss of credit. However, planning for effective transfer with maximum efficiency is ultimately the student's responsibility. Responsible transfer planning includes early and regular consultation with the intended degree-granting institution to assure that all pre-transfer coursework will meet the requirements of the desired degree.

### Transferable Lower-Division General Education Common Core

Students enrolled for first year study who have not yet selected either an academic focus or the institution from which they wish to graduate are advised to take courses during their freshman year outlined in the New Mexico General Education Common Core. For students enrolled at any public institution in New Mexico, these courses are guaranteed to transfer to any other New Mexico public college or university, and will apply toward associate and baccalaureate degree program requirements. Students should consult advisers at their current institutions regarding which specific courses fit these categories.

Students preparing for careers in engineering, health sciences, or other profession-related fields are advised that some of their course work may not transfer toward general education requirements. In most cases, it will be applied toward elective requirements.

### New Mexico Common Course Numbering System

A common course numbering system has been devised by New Mexico colleges and universities. The

purpose of the system is to assist New Mexico students who wish to transfer between institutions within the state. The system provides a neutral state-wide course identifier for those courses that are similar in nature and considered to be equal in transfer. If a Mesalands Community College course has a New Mexico Common Course Number (NMCCN), that course number is listed below in parentheses and, if applicable, is also listed parenthetically following the course description in the Course Description section of this catalog.

The following is a list of Mesalands Community College (MCC) courses included in the New Mexico General Education Common Core:

#### Area I: Communications (9 credits)

MCC	NMCCN	Course Title
ENGL 1110	(ENGL 1110)	Composition I
ENGL 1120	(ENGL 1120)	Composition II
ENGL 2210	(ENGL 2210)	Professional & Technical Communication
COMM 2120	(COMM 2120)	Interpersonal Communication
COMM 1130	(COMM 1130)	Public Speaking

#### Area II: Mathematics (3 credits)

MCC	NMCCN	Course Title
MATH 1130	(MATH 1130)	Survey of Mathematics
MATH 1220	(MATH 1220)	College Algebra
MATH 1230	(MATH 1230)	Trigonometry
MATH 1430	(MATH 1430)	Applications of Calculus I
MATH 1350	(MATH 1350)	Introduction to Statistics

#### Area III: Laboratory Science (8 credits)

MCC	NMCCN	Course Title
BIOL 1110C	(BIOL 1110C)	General Biology Lecture & Laboratory
CHEM 1215C	(CHEM 1215C)	General Chemistry I Lecture and Laboratory for STEM Majors
CHEM 1225C	(CHEM 1225C)	General Chemistry II Lecture and Laboratory for STEM Majors
PHYS 1115C	(PHYS 1115C)	Survey of Physics with Lab
ASTR 1115	(ASTR 1114)	Introduction to Astronomy
PHYS 1230C	(PHYS 1230C)	Algebra-based Physics I Lecture + Laboratory
PHYS 1240C	(PHYS 1240C)	Algebra-based Physics II Lecture + Laboratory
GEOL 1110	(GEOL 1110)	Physical Geology
GEOL 152	(GEOL 1214)	Historical Geology
GEOL 1120	(GEOL 1120)	Environmental Geology
BIOL 2210C	(BIOL 2210C)	Human Anatomy and Physiology I Lecture & Laboratory
BIOL 2225C	(BIOL 2225C)	Human Anatomy and Physiology II Lecture & Laboratory

#### Area IV: Social/Behavioral Sciences (6-9 credits)

MCC	NMCCN	Course Title
ECON 2110	(ECON 2110)	Macroeconomic Principles
ECON 2120	(ECON 2120)	Microeconomic Principles
PSCI 102	(POLS 1123)	American Politics
PSCI 202	(POLS 1213)	State and Local Government
PSYC 1110	(PSYC 1110)	Introduction to Psychology
SOCI 1110	(SOCI 1110)	Introduction to Sociology
SOCI 2310	(SOCI 2310)	Contemporary Social Problems
SOCI 2240	(SOCI 2240)	Sociology of Intimate Relationships and Family

**Area V: Humanities (6 credits)**

MCC	NMCCN	Course Title
ARTH 1110	(ARTH 1110)	Art Appreciation
ARTH 2110	(ARTH 2110)	History of Art I
ARTH 2140	(ARTH 2140)	Art of the American Southwest
ENGL 1410	(ENGL 1410)	Introduction to Literature
ENGL 2350	(ENGL 2350)	Introduction to Drama
ENGL 2360	(ENGL 2360)	Introduction to Poetry
ENGL 2370	(ENGL 2370)	Introduction to the Novel
ENGL 2380	(ENGL 2380)	Introduction to Short Fiction
ENGL 2610	(ENGL 2610)	American Literature I
ENGL 2520	(ENGL 2520)	Film as Literature
ENGL 2550	(ENGL 2550)	Introduction to Southwest Literature
ENGL 2580	(ENGL 2580)	Science Fiction
ENGL 2630	(ENGL 2630)	British Literature I
		Literature
ENGL 2650	(ENGL 2650)	World Literature I
ENGL 2680	(ENGL 2680)	Women's Literature
ENGL 2520	(ENGL 2520)	Film as Literature
ENGL 2993	(ENGL 2993)	Workshop in English
ENGL 2996	(ENGL 2996)	Topics in English
HIST 1110	(HIST 1110)	United States History I
HIST 1120	(HIST 1120)	United States History II
HIST 1150	(HIST 1150)	Western Civilization I
HIST 1160	(HIST 1060)	Western Civilization II
PHIL 2150	(PHIL 2150)	Morality and Society
PHIL 2230	(PHIL 2230)	Philosophical Thought
<b>Area VI: Creative and Fine Arts (3 credits)</b>		
ARTS 1240	(ARTS 1240)	Design I
ARTS 1250	(ARTS 1250)	Design II
ARTS 1320	(ARTS 1320)	Ceramics I
ARTS 1610	(ARTS 1610)	Drawing I
ARTS 1630	(ARTS 1630)	Painting I
ARTS 1410	(ARTS 1410)	Introduction to Photography
ARTS 1520	(ARTS 1520)	Digital Media I
ARTS 1710	(ARTS 1710)	Introduction to Printmaking
ARTS 1840	(ARTS 1840)	Sculpture I
ARTS 2310	(ARTS 2310)	Ceramics II
ARTS 2850	(ARTS 2850)	Art Foundry I
ENGL 2310	(ENGL 2310)	Creative Writing
MUSC 1130	(MUS 1130)	Music Appreciation: Western Music
THEA 1110	(THEA 1110)	Introduction to Theatre
Total to be selected		35 semester hours

**Lower-Division 64-Hour Transfer Modules**

Students who have selected a field of study but who have not selected the college or university from which they wish to earn their baccalaureate degree are advised to take courses during their freshman and sophomore years as outlined in one of the Lower-Division 64-hour Transfer Modules. For students enrolled at any public institution in the state, these courses are guaranteed to transfer to any New Mexico university and apply toward bachelor's degree program requirements. Students should consult advisers at their current institutions regarding which specific classes fit

these categories. Lower-division transfer modules presently exist for:

- Business
- Early Childhood Education

Copies of these Transfer Modules may be obtained in the Student Affairs Office or at the New Mexico Higher Education Department's web site ([www.hed.state.nm.us](http://www.hed.state.nm.us)).

**ARTICULATION AGREEMENTS AND INTER-INSTITUTIONAL TRANSFER GUIDES**

Mesalands Community College has formal articulation agreements with Eastern New Mexico University, The University of New Mexico, New Mexico Highlands University, New Mexico State University, West Texas A&M University, The University of Phoenix, Amarillo College, Luna Community College, Clovis Community College, and Franklin University.

Students who have selected a field of study and/or the institution from which they wish to graduate are advised to consult the transfer guide or catalog of that institution for more current and detailed advice to guide their course selection. Formal published transfer guides between Mesalands Community College and Eastern New Mexico University, New Mexico Highlands University, and the University of New Mexico are available in the Office of Enrollment Management.

**Complaint Procedures for Transfer Students**

Problems regarding the transfer of credit to Mesalands Community College from other colleges or universities should first be directed to the Office of Enrollment Management. Complaints not resolved at this level should be submitted in writing to the Academic Standards and Issues Committee. Students who are attempting to transfer credit from Mesalands to other institutions and experience difficulty are encouraged to contact the Office of Enrollment Management for advice and/or assistance.

Issues involving New Mexico institutions regarding New Mexico Transfer Modules or courses within these modules that cannot be resolved by the above processes may be directed to the New Mexico Higher Education Department, 2048 Cerrillos Road, Santa Fe, NM 87505. If a student's articulation complaint regarding courses contained in a module is upheld by the Department, the receiving institution must reimburse the student the complete cost of tuition, books and fees for each course the student was required to repeat at the receiving institution.



## MESALANDS COMMUNITY COLLEGE'S DINOSAUR MUSEUM AND NATURAL SCIENCES LABORATORY VOLUNTEER ASSOCIATION

The purpose of the Mesalands Community College's Dinosaur Museum and Natural Science Laboratory Volunteer Association, also known as "fossil friends," shall be to support the functions of the Mesalands Dinosaur Museum and Natural Science Laboratory and:

1. Assist the Curator with projects, as needed.
2. Facilitate the volunteer activities.
3. Promote public programming and educational opportunities for Friends' members in areas "pertaining to the Mesalands Dinosaur Museum

## College Compliances

### EQUAL OPPORTUNITY/ NONDISCRIMINATION POLICY

Mesalands Community College is committed to the policy of equal opportunity in employment and education regardless of race, color, religion, national origin, sex, age, physical or mental disability, serious medical condition or veteran status.

In compliance with Titles II, VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act, and Section 402 of the Vietnam Era Veteran's Readjustment Act of 1974 and the New Mexico Human Rights Act, Mesalands Community College does not discriminate against any applicant, employee or student. This policy covers admission, access, and services in College programs and activities, as well as the application and treatment in College employment.

*Note: Mesalands Community College makes reasonable accommodations to allow qualified applicants and employees with disabilities equal opportunity for employment. The College offers accommodations to qualified students so they may benefit from equal educational opportunities.*

### DRUG-FREE CAMPUS

It is Mesalands Community College's policy to provide a safe environment for its employees, students and members of the public. Accordingly, Mesalands Community College adheres to the Drug-Free Workplace Act of 1988, the Omnibus Transportation Act of

1991, and any state or local law regarding the use, sale or possession of alcohol and controlled substances on College property.

Mesalands Community College forbids any employee or student from possessing, using, selling, distributing, or being under the influence of alcohol, drugs, or drug paraphernalia while on College property or while involved in student activities.

### TOBACCO-FREE ENVIRONMENT

All of Mesalands Community College's indoor areas are smoke-free and tobacco-free. In support of the New Mexico Clean Indoor Air Act [24-16-1 NMSA 1978], this prohibition against all use of tobacco of any kind is extended to include all campus building facilities (including restrooms, classrooms, work areas, lounges, commons areas, conference rooms, etc.) and all vehicles owned and/or operated by the College. Additionally, smoking is prohibited under the Dee Johnson Clean Indoor Air Act near entrances, windows and ventilation systems of all workplaces and public places.

### WEAPON-FREE CAMPUS

Persons in possession of firearms, ammunition, explosives or edged weapons are prohibited from carrying, conveying, or storing such materials on College property or at College functions. The only exceptions to this policy are reserved for law enforcement officers authorized by state law to carry firearms (30-7-2 NMSA 1978) and materials authorized for instructional purposes. Violations of this policy may result in expulsion.

### FAMILY EDUCATIONAL RIGHTS/ PRIVACY ACT

It is the policy of Mesalands Community College to ensure the right of privacy and access to the student of his or her educational records in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974, its amendments and the final rule of the U.S. Department of Health, Education and Welfare.

FERPA gives students certain rights regarding their records including:

1. The right to inspect information contained in the student's educational records.
2. The right to request correction of records upon proof of error.
3. The right to prevent disclosure of records without consent, with certain exceptions, including directory information, as delineated in the College's complete policy.
4. The right to secure a copy of the College's complete policy (see Office of Enrollment Management).
5. The right to file a complaint with the U.S. Department of Education.

ment of Education concerning alleged failures by the College to comply with the provisions of the Act.

6. The right to have directory information withheld (see Release of Student Information).

## RELEASE OF STUDENT INFORMATION

With the exception of “directory information” and other exceptions permitted by the Family Education Rights and Privacy Act (FERPA), no access to a student’s or former student’s educational records will be granted unless a written authorization form is completed.

Directory information consists of the following:

Name, mailing address, date of birth, major field of study, classification (freshman or sophomore), dates of attendance (terms), honors and degrees awarded, photographic image, e-mail address, and the name of the education agency or college attended immediately prior to enrollment at Mesalands Community College.

Students currently enrolled who wish to deny release of directory information must complete an “Access to Student Records” form in the Office of Enrollment Management. Restriction of directory information will only be honored while the student is currently enrolled at Mesalands Community College. Should a student not maintain continuous enrollment, she/he must complete another form upon readmission.

## STUDENT RIGHT-TO-KNOW AND CAMPUS SECURITY ACT

Mesalands Community College is committed to maintaining a safe, secure environment for working and learning. The Tucumcari Police Department provides law enforcement services for the College campus. This includes 24-hour patrol and dispatch services, as well as emergency access through telephone number 9-1-1. The College complies with the Campus Security Act and publishes information related to crime and campus security. This information is available to all current students and employees, and to any applicant for enrollment or employment.

## STUDENT CODE OF CONDUCT

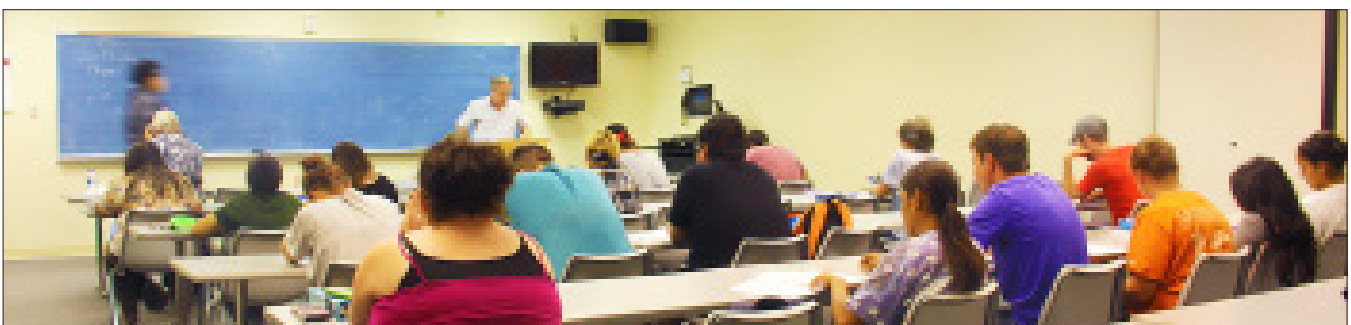
In an effort to create the best possible learning environment, Mesalands Community College requires students to respect the individual rights of others and to exercise reasonable and responsible judgment while on the campus or while participating in College activities. Certain forms of student conduct which are deemed to be inconsistent with the institution’s learning environment and goals are subject to standards established by Mesalands Community College.

Written policies—which have been formulated regarding standards of student conduct—are available in the Student Affairs Office and published in the Student Handbook. It is a condition of enrollment for all students to abide by the policies established by the Mesalands Community College Board of Trustees regarding behavioral standards and the appropriate code of conduct. Failure to comply with these written policies may result in disciplinary suspension or dismissal from the institution.

Mesalands Community College reserves the right to involve law enforcement agencies in any violation of city or county ordinances and state or federal law.

## DISCRIMINATION AND SEXUAL HARASSMENT POLICY

Mesalands Community College disapproves of and will not tolerate discrimination based on race, color, sex, age, religion, national origin, physical disability, mental disability or serious medical condition; and/or the sexual harassment of its employees, students, or visitors. Any student who engages in discrimination or sexual harassment will be subject to discipline, and the appropriate corrective action will be taken to prevent its recurrence. Any incidents of discrimination or sexual harassment by anyone, including non-employees, should immediately be brought to the attention of Mesalands Community College’s Personnel Department.



# EDUCATIONAL POLICIES

## ATTENDANCE POLICY

Mesalands Community College holds to the philosophy that students who attend class regularly are better prepared to learn. If a student stops attending class, it is his/her responsibility to officially withdraw from the course.

## DIRECTED STUDIES

Directed Study is permitted under the following conditions:

1. A required class cannot be taken due to a scheduling conflict which is no fault of the student; or
2. A student wishes to pursue a project for elective credit which is related to his/her program of study, but which is not part of the content of an existing class.

Students wishing to take a class as a Directed Study must have completed at least 30 credits, with a minimum cumulative GPA of 3.0. Directed Study must be approved by the instructor as well as the Vice President of Academic Affairs. No more than one class per semester may be taken as Directed Study, nor more than a total of 7 credits for the duration of the student's educational experience at Mesalands Community College. The student will be responsible for the same fees and tuition paid for a traditional class.

## ADVANCED PLACEMENT CREDIT

Credit is awarded for those students who have attained qualifying scores on Advanced Placement (AP) examinations. Credit will be awarded only upon

receipt of an official AP score report from the College Board. For more information on complete Advanced Placement policies see the Office of Enrollment Management.

## CHANGES IN ENROLLMENT

### ADD/DROP

Students who wish to add or drop a course may do so only during the time specified in the College calendar. Students cannot add courses after the late enrollment deadline without the consent of the instructor and the Director of Enrollment Management.

### WITHDRAWAL

Students are allowed to withdraw from a course without academic penalty up until the published withdrawal date, which is established in the College calendar. In addition, students may completely withdraw from Mesalands Community College at any time prior to the date established in the College calendar as the last day to withdraw from courses without academic penalty.

Students who are forced by emergencies or circumstances beyond their control to leave the College without officially withdrawing should notify the Office of Enrollment Management and request an administrative withdrawal.

## FULFILLMENT OF PREREQUISITES

A number of courses at Mesalands Community College are dependent upon knowledge gained in preceding classes. It is required that students receive at least a grade of "C" in all prerequisite courses prior to proceeding in the course sequence. Prerequisite courses are not normally waived.

## ACADEMIC LOAD

Full-time students must be enrolled in 15 or more credit hours during a regular semester and 6 or more hours during the summer semester. Part-time students may take fewer than 15 credit hours during a regular semester and fewer than 6 credit hours during the summer semester.

Normally a student may not enroll in more than 18 credits for a regular semester or 9 for a summer semester unless he/she had a GPA of 3.0 or higher the previous semester and has completed at least 12 credits. First time freshmen and high school concurrently enrolled students cannot enroll in more than 18 credits. Students who meet the above criteria wishing to enroll in 22 credits or more in a fall or spring semester (or 10 or more credits in the summer),



must have the approval of the Vice President of Academic Affairs or the Vice President of Student Affairs.

## GRADING SYSTEM

### FINAL GRADES

Final grades are based on the quality of work done in courses offered for credit. They appear on a student's transcript and are used to calculate the grade point average (GPA). Letter grades are defined as follows:

Letter Grade	Descriptions	Grade Points per Unit of Credit
A	<i>Excellent work</i>	4
B	<i>Better-than-Average work</i>	3
C	<i>Average work</i>	2
D	<i>Below-average work</i>	1
F	<i>Failing work</i>	0
I	<i>Incomplete</i>	0
W	<i>Withdrawal</i>	0
AU	<i>Audit</i>	0
P	<i>Passing</i>	0

### INCOMPLETE

An "I" is issued when unforeseeable circumstances beyond the student's control prevent the student from completing course requirements by the end of the semester. Incomplete grades will not be authorized when the student has failed to complete course requirements or has failing grades due to personal negligence. To apply for a grade of "I," the student must complete an Incomplete Grade Form with their instructor. A student may only apply for an incomplete grade after the deadline for withdrawing and before the last week of class. If an emergency arises prior to the withdrawal deadline that prevents a student from completing a course, he/she should withdraw from the class. An incomplete will not be awarded.

A student who applies for an incomplete grade must attend class up until the time of applying for the incomplete, or up until the time a legitimate, documented emergency occurs. Those in distance education courses must make progress in their class and maintain contact with their instructor.

A student must have maintained a passing grade in the course up until the time of applying for an incomplete grade. A grade of incomplete cannot be replaced by

repeating the course. If a student takes an incomplete and repeats a course the following semester, he/she will still be expected to complete the requirements of the incomplete course. Upon completion, an appropriate grade will be issued. A student who receives an Incomplete or grade of "I" will be given five weeks from the date the Incomplete was issued to complete their course work.

### WITHDRAWAL

Students are allowed to withdraw from a course without academic penalty up until the established withdrawal date. This date is established in the institutional calendar and published in the class schedule, the student handbook, and the College catalog. A drop/add/withdrawal fee will be assessed.

The withdrawal deadline for short courses and courses which do not meet according to the regular semester schedule is pro-rated accordingly. See the Office of Enrollment Management for withdrawal deadlines for these courses.

### AUDIT

Auditing a course gives a student an opportunity to attend a class as a non-graded, non-credit participant. Students typically audit a course in order to review a subject area, as a course refresher, or for their own general interest. Students must register for audited courses in the same manner as they do for regular courses. Standard tuition and fees apply to all audited courses, and are due and payable at the time of enrollment.

Audited courses are recorded on the College transcript as an "AU" and cannot be changed to a credit course or grade at a later date. Students may repeat the course for credit at a later date.

### PASS/FAIL GRADING

At the direction of the Vice President of Academic Affairs, courses which are not prescribed in a specified plan of study may be offered on a Pass/Fail grading basis. Also, students may opt to take courses on an individual Pass/Fail basis. However, only a maximum total of 7 credits of Pass/Fail may be used towards a student's educational plan of study at Mesalands Community College. Students must maintain a 75% average to receive a grade of "P." Any lower average will be recorded as an "F."

### CHANGE OF GRADING STATUS

Students may elect to change from conventional grading to "Audit" or "Pass/Fail," or vice versa at any time during the drop/add period by notifying the Office



of Enrollment Management. A drop/add fee will be assessed.

## GRADE APPEAL

Any student who feels his or her grade is incorrect may appeal for a grade change by observing the following steps:

Discuss the grade with the instructor involved,  
And

if unable to reach an agreement, make an appointment with the Vice President of Academic Affairs and present all evidence relating to the grade. The final appeal will be made to the Vice President of Academic Affairs, whose decision is final.

## REPEATING COURSES

Courses may be repeated only once to improve a grade. Students who wish to take advantage of this policy should notify the Office of Enrollment Management and complete an "Application to Repeat" form. Grades in both classes will appear on the transcript, but only the last grade earned will be used to calculate the cumulative grade point average (CGPA).

## TRANSFERRING CREDIT

Institutions of higher education across the United States have the option of transferring (accepting) course credits from other institutions of higher education. Students are encouraged to work with Student Affairs personnel to develop and/or review their plan of study to assure ease of transfer from one institution to another by submitting a transcript evaluation request to the Director of Enrollment Management. Currently, all public institutions of higher education in the State of New Mexico recognize the General Education Common Core of Courses (35 credits), as coordinated by the New Mexico Higher Education Department. These courses will transfer to all public colleges and universities in the State of New Mexico.

Only credit which is applicable toward a student's signed Educational Plan of Study shall be considered for transfer credit. Students who wish to obtain credit for past college work must have an official transcript from each previous college mailed directly to Mesalands Community College. They must also complete a Request for Transcript Evaluation Form. Only courses for which a grade of "C" or better (or "P" or "S") will be considered for transfer.

Any course accepted on transfer must be equivalent to the Mesalands Community College course for which it is substituted on the plan of study. If the course transferred to Mesalands is for fewer credits than the

## Computing Grade Point Average

The grade point average (GPA) is calculated as follows, where A = 4, B = 3, C = 2, D = 1, F = 0: multiply the number of credits for a course by the points assigned to the letter grade for each class (e.g., "A" = 4 grade points x 3 credits = 12; "B" = 3 grade points x 3 credits = 9), add the total points (e.g., 12 + 9 = 21), and divide by the total number of credits (e.g., 21/6 = 3.5 = "B" average).

### Grade Point Average

The following is an example of how to determine the GPA after a student takes the courses below and receives the grades as shown:

Course	Final Grade	Grade Points		Credits	Quality Points
ENGL 1110	A	4	x	3 =	12
MATH 101	B	3	x	3 =	9
BIO 113	C	2	x	4 =	8
SOC 101	D	1	x	3 =	3
ART 101	F	0	x	3 =	0

Total Credits = 16      Total Quality Points = 32  
Quality Points divided by Credits = Grade Point Average  
(32 divided by 16=2.00)

Mesalands course, the student must acquire additional credit(s) relevant to his/her plan of study to make up the difference. Courses accepted in transfer will not be included in the Cumulative Grade Point Average (CGPA).

Transfer credit for military training will be allowed in accordance with the above, provided the student provides official documentation of course completion, including the course's American Council on Education ID number. The Guide to the Evaluation of Educational Experiences in the Armed Services shall be used in evaluating the course's equivalency to Mesalands courses.

Problems regarding the transfer of credit to Mesalands Community College from other colleges or universities should first be directed to the Office of Enrollment Management. Complaints not resolved at this level should be submitted in writing to the Academic Standards and Issues Committee. Students who are attempting to transfer credit from Mesalands to other institutions and experience difficulty are encouraged to contact the Office of Enrollment Management for advice and/or assistance.

Issues regarding transfer credit between New Mexico institutions which cannot be resolved by the above processes may be directed to the New Mexico Higher Education Department, 2048 Cerrillos Road, Santa Fe, NM 87505.

## CREDIT FOR EXPERIENTIAL LEARNING

It is recognized that not all learning takes place within the confines of a college classroom. Learning which is equivalent to that acquired in a classroom may occur in a variety of settings. This learning is referred to as “experiential learning.” Experiential learning may occur in non-collegiate settings such as the following:

- Employment, particularly where increasing levels of responsibility have occurred
- Military experience
- Specialized training or continuing education
- Technical or vocational training
- Trade school
- Correspondence studies
- Apprenticeships or internships
- On-the-job training
- Reading of professional publications and journals

Other accomplishments or activities, while not specifically learning activities in themselves, may be evidence of experience and/or advanced knowledge in a particular discipline. These accomplishments may include the following:

- Professional licenses/certificates
- Experience as a lecturer, instructor, mentor, or supervisor
- Personal writings or publications
- Authoring of strategic or business plans
- Development of a company or organizational budget
- Authoring of operational manuals, personnel handbooks, etc.
- Competency test results
- Awards or citations
- Participation in career-related organizations or trade associations
- Leadership role in civic, fraternal, political or religious organizations

It is important to note that simply sitting in a classroom does not guarantee a learning outcome. Likewise, neither does experience or involvement in any of the above activities automatically result in a learning environment equivalent to that which occurs in a collegiate classroom. To this end, involvement in a job or other activity for extended periods of time does not necessarily guarantee a collegiate-equivalent learning outcome.

Recognizing that adult learners may have experiences outside the college classroom that have led to the acquisition of knowledge and skills equivalent to those obtained in a traditional course, Mesalands Community College provides a mechanism for awarding college credit based upon the documentation of collegiate-equivalent learning.

Students with appropriate life experiences may petition for college credit by developing and submitting an Experiential Learning Portfolio. Up to 18 college credits may

be awarded toward the Associate of Applied Science Degree in General Studies (see Plans of Study). Credit will be awarded only if appropriate experiential learning has occurred and is documented as specified in this document and the Experiential Learning Portfolio Handbook. Students who are awarded credit for experiential learning must pay the current tuition rate in order to have these credits posted to their transcript and applied toward degree requirements. Contact the Office of Enrollment Management for more information.

## VICE PRESIDENT’S LIST

At the end of the fall and spring semesters, the Vice President’s List is announced as the official recognition of outstanding academic accomplishments. Qualifications are as follows:

Students must maintain a grade point average of 3.5 or higher for courses taken at Mesalands Community College (excluding pre-collegiate courses). Students must successfully complete 15 or more credit hours and not receive a grade below a “C” in the given semester. Students must not have an outstanding grade of “I” during the given year.

## PRESIDENT’S CITATION

At the end of the spring semester, the President’s Citation is announced as official recognition of exceptional academic achievement. Qualifications are as follows: maintenance of a cumulative grade point average of 3.75 or higher (excluding pre-collegiate courses), successful completion of 30 or more credits in the fall/spring semesters, with no grade below a “C” or no outstanding grade of “I” during the given year.

## ACADEMIC INTEGRITY

The integrity of an academic program rests on the principle that the grades awarded to students reflect only their own individual efforts and achievement.



Students are required to perform the work specified by the instructor and are responsible for the content of the work submitted. This includes papers, reports, and examinations.

## **ACADEMIC STANDARDS**

Honesty in academic work is a central element of the learning environment. The presentation of another individual's work as one's own, or the act of seeking unfair academic advantage through cheating, are violations. The general descriptions below emphasize those boundaries of academic conduct which are essential to the learning environment.

The following acts of academic dishonesty are among those which may lead to College disciplinary action or possible dismissal:

### **CHEATING**

Cheating is defined as submitting assignments, examinations, or other work which is based upon sources or activities forbidden by the instructor. Cheating includes the furnishing of materials to another person for the purpose of aiding that person to cheat. When an unfair academic advantage is gained by a person through deception or other means, that action is defined as cheating.

### **PLAGIARISM**

Plagiarism is defined as submitting assignments, examinations, or other academic work which is not entirely the work of the student. This may include, but is not limited to, such practices as 1) quoting without giving proper credit to a source, 2) expanding someone else's work without giving proper credit, 3) adopting as one's own an actual document (including the copying of computer or other electronic media), and 4) directly using someone else's ideas without giving proper credit.

### **VIOLATION OF COPYRIGHT**

The unauthorized copying of copyrighted material, whether print or computer media, is illegal and is considered an act of academic dishonesty; moreover, such practice makes the violator subject to legal penalty.

### **PENALTIES FOR ACADEMIC DISHONESTY**

The following penalties may be applied in instances of academic dishonesty:

A student caught in the act of academic dishonesty on an assignment or exam shall, at the discretion of the

instructor, be assigned a grade of "F" for that assignment or exam, or for the entire class.

A student found to have committed an act of academic dishonesty may be dismissed from Mesalands Community College. The length of the dismissal will depend upon the nature of the offense and may include a permanent dismissal of the student.

## **PROBATION AND ACADEMIC SUSPENSION**

### **ACADEMIC STANDING**

In order to be in good academic standing, students must maintain a cumulative grade point average of at least 2.0 ("C" average). Students who do not meet these standards will be placed on academic probation.

### **ACADEMIC PROBATION**

Any student whose Cumulative Grade Point Average (CGPA) drops below 2.0 will be placed on academic probation. The student must bring the CGPA up to at least 2.0 during the following semester in order to avoid being placed on academic suspension.

### **ACADEMIC SUSPENSION**

Students on the first semester of academic suspension are not allowed to enroll in classes except for pre-collegiate courses or to repeat one or more courses with unsatisfactory grades in order to improve the cumulative grade point average.

If a student completes such limited enrollment under academic suspension with a GPA of less than 2.0 for that semester, the student will not be allowed to enroll in any courses the following semester. If the GPA for that semester is 2.0 or higher (but the cumulative GPA is still below 2.0), the student may continue on limited enrollment while under academic suspension. If the cumulative GPA reaches 2.0 or higher, the student will be released from probation and suspension.

Students who are placed on complete academic suspension for a second time are not automatically readmitted after one semester. Instead, after one semester of suspension, the student must submit a written petition to the Academic Standards and Issues Committee requesting readmission. The committee can grant readmission at this time, or may choose to require a suspension of a full year or longer. They may also deny future readmission altogether.

Students readmitted after suspension may also be required to follow additional stipulations, including periodic meetings with an adviser or counselor, tutoring, attendance, or



GPA requirements. Students readmitted after suspension who do not follow such stipulations are subject to immediate dismissal from the College.

## STUDENT APPEALS

Students who wish to appeal academic probation or suspension must do so in writing to the Vice President of Academic Affairs prior to the first day of regular registration for the following semester.

## FIRST-YEAR SEMINAR COURSE

All students pursuing a degree are required to take FYEX 1110 First-Year Seminar, if they place into a pre-collegiate course, within the first 12 credit hours of enrollment. This three-hour course is designed to assist students in obtaining the skills necessary to reach their educational, career, and personal goals.

Course topics include decision-making, time management, test taking, career planning, library skills, study techniques, communication skills, and personal topics facing college students.

## SUCCESS ASSESSMENT/PLACEMENT TESTING

The Success Assessment/Placement Test, which is administered through the Educational Services Center in Building A, is used to place students in appropriate math, English, reading, and computer classes. These classes help to ensure students' success while enrolled at Mesalands Community College.

All students pursuing a degree and any student enrolling in core math or English classes must complete the assessment prior to enrollment. Students must enroll in the level of math, English, and computer classes prescribed by the assessment and, if indicated, in pre-collegiate reading. Students who score below prescribed levels on the Success Assessment/Placement Test will be placed in Adult Education courses prior to enrolling in collegiate level courses.

Each one of these additional courses you place into will cost you extra time and tuition money to complete and also uses up your financial aid eligibility; therefore, students are strongly encouraged to do their very best on these placement exams. Retaking the exam to further improve your results will cost an additional fee.

Preparing yourself for the ACCUPLACER by reviewing and taking practice exams can save you significant time and money. Ask an Educational Services Center staff member for an ACCUPLACER Sample Test. You can also go to

<http://accuplacerpractice.collegeboard.org> for either the Sample Test or a Learn as You Go app which explains the correct answers. These study apps are free of charge but you must register with ACCUPLACER.

In short, it would be in your best interest to give your very best effort when taking these exams. Take your time and plan on a minimum of two (2) hours to complete the exams.

## ASSESSMENT OF STUDENT LEARNING

Assessment can be defined as the process of determining the quality and quantity of student learning in order to make improvements (Bordon and Zak, 2001). It is critical that faculty members at Mesalands Community College meaningfully capture and document what they are teaching, what students are learning, and how this information is improving the teaching-learning relationship. The College is committed to providing its students with a productive learning environment.

To that end, Mesalands Community College encourages faculty to take "ownership" of their respective programs and courses in terms of whether students are learning what faculty say they are learning as identified in the general education competencies, program objectives, and course objectives. Clearly defined general education competencies, program objectives, and course objectives are Mesalands' contract with all stakeholders and reflect those competencies that students will possess and demonstrate upon graduation. These objectives and competencies reflect the knowledge, skills, and professional dispositions valued by workplace employers and other interested parties and represent the most deeply held values of the College. They drive all that occurs at Mesalands.

Mesalands assesses student learning at all levels of the college experience, both inside and outside the classroom using both graded and ungraded measures. Assessment exists to ensure that the College fulfills its function of facilitating and documenting student learning.

Effective assessment of student learning is a matter of commitment, not a matter of compliance. To that end, Mesalands Community College is dedicated to establishing a culture of assessment embedded in every aspect of the educational process.



# ADMISSION AND REGISTRATION

## ADMISSION

### OPEN ADMISSIONS STATEMENT

Mesalands Community College has an open admissions policy which allows students to enroll in degree and certificate programs. In accordance with the College's mission, Mesalands Community College seeks to provide instruction and services to qualified individuals. The determination of services provided is based upon the individual's ability to benefit. The ability to benefit is based on completion of high school, high school equivalency (HSE), or Success Assessment/Placement Test results.

All students who wish to be admitted to Mesalands Community College must submit a completed application for admission to the Office of Enrollment Management. Students may also apply online at [my.mesalands.edu](http://my.mesalands.edu).

### Degree/Applied Science Certificate Programs

Submit an official transcript from an accredited secondary school or high school program, showing date of graduation,

And

Submit official transcripts from all prior colleges, universities and other post-secondary institutions attended.

### Occupational Certificate Programs

Submit an official transcript from an accredited secondary school or high school program, showing date of graduation,

Or

Complete the Success Assessment/Placement Test, and score at a level which demonstrates an ability to benefit from the desired certificate program.

*Note: these students will not qualify for Federal Financial Aid.*

### Admission to Full-Time Occupational Technical Programs

Students interested in applying for admission to the Wind Energy Technology Degree Program must complete the Success Assessment/Placement Test for admission. The math score must establish eligibility to enroll in MATH 1215, or in the freshman year the student must take and pass MATH 101. The English score must establish eligibility to enroll in ENGL 1110, or in the freshman year the student must take and pass ENG 100. If the student's scores do not

meet program requirements, he or she must complete all required pre-collegiate courses as prescribed by test scores with a grade of "C" or higher. Students in this program must also complete the required physical exam. All Wind Energy Technology students must enroll in courses according to the published Plan of Study. For additional information, contact the Wind Energy Department at (575) 461-4413, ext. 156, or visit [www.mesalands.edu/wind](http://www.mesalands.edu/wind).

### Provisional Admission

Students may be provisionally admitted while requirements are pending for regular admission. If regular admission requirements have not been received by the fifth week of enrollment, a student is subject to disenrollment and may not be permitted to register for the subsequent semester. If all official college transcripts have not been received by the end of the first semester, a hold will be placed on the student's account.

### Undeclared

Students who wish their major to be considered "undeclared" must conform to regular admissions requirements and state their purpose for taking a course(s) on their admissions application.

### Program Admission

Mesalands Community College adheres to an open admissions policy, admitting any student to the College who is a high school graduate, HSE recipient or who has otherwise



demonstrated the ability to benefit as demonstrated by the Success Assessment/Placement Test.

However, a student may be required to demonstrate certain proficiencies in math, English and reading before admission to specific programs or classes is permitted. Students who do not demonstrate a minimum proficiency will be required to successfully complete prescribed pre-collegiate programming before they may gain admission to programs or collegiate level classes.

Federal Financial Aid may not be awarded to a student enrolled exclusively in pre-collegiate courses or for enrollment in certain pre-collegiate courses with curriculum content below minimum levels as per Federal Financial Aid regulations.

### **International Student Admission**

Mesalands Community College is authorized under Federal law to enroll non-immigrant alien students. An international student requesting admission to Mesalands Community College must:

- Complete an application for admission from the Office of Enrollment Management.
- Submit transcripts demonstrating satisfactory grades which are the equivalent of a U.S. primary and secondary education; that is, 12 years of academic work.
- Provide verification of satisfactory performance on the Test of English as a Foreign Language (TOEFL).
- Provide documentation of adequate financial resources to cover tuition and living expenses for the duration of the student's projected enrollment.

### **Dual Enrollment**

Mesalands Community College cooperates with a number of area high schools in a dual enrollment program which allows qualified high school students to take courses at the College, which will meet requirements for graduation from the high school while simultaneously earning credit at the College.

Individuals who are neither high school graduates nor high school equivalency (HSE) recipients must provide proof of current high school enrollment each semester to attend Mesalands. For more information on dual enrollment, contact the Vice President of Academic Affairs.

### **Non-Degree Status Admission**

To facilitate those individuals age 18 or older who are interested in taking individual courses for the purposes of professional development or personal enrichment (who are not interested in pursuing a certificate or degree), the College will allow admission on a non-degree basis.

Students admitted to Mesalands Community College on a non-degree status do not have to provide proof of high school graduation. However, such students are not eligible for Federal Financial Aid programs and must take the Success Assessment/Placement Test to enroll in core math, English or reading courses. Although credit earned under non-degree status may later be applied to a plan of study, the student is not "locked in" to a the plan of study until he/she meets requirements for regular degree-seeking admission and files a plan of study with the Office of Enrollment Management (see Educational Plan of Study). *Students who anticipate ever pursuing a certificate or degree are strongly encouraged to apply for regular admissions status rather than non-degree status.*

### **Readmission**

Students who wish to return after leaving Mesalands Community College must contact the Office of Enrollment Management and update their admission form.

### **Under-age Admission**

Individuals under the age of 15 who seek admission to the College should inquire at the Office of Enrollment Management regarding Under-age Admissions.

## **REGISTRATION**

Mesalands Community College publishes an annual institutional calendar (page ii) that specifies major dates and events at the College. This information, including registration dates, is provided for fall, spring and summer semesters. Information on short courses, workshops and seminars is available from the Office of the Vice President of Academic Affairs.

Students should be aware of College policies, procedures and options regarding course registration.

*Note: Students are considered fully enrolled when all tuition, fees and financial obligations have been paid, or arranged and approved through the Business Office.*

## **STUDENT RECORDS**

It is the policy of Mesalands Community College to ensure the right of privacy and access to the student of his or her educational records in accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA) of 1974. See Family Educational Rights/Privacy Act in the Student Affairs Office.

### **ORDERING OFFICIAL TRANSCRIPTS**

The Office of Enrollment Management issues official Mesalands Community College transcripts. Students

must complete a written transcript request form or make a formal written request for a transcript with the required fee (see fee schedule) and allow 48 hours for processing.

Transcripts reflect only course work completed at Mesalands Community College. Transcripts for courses completed at other colleges may be obtained by contacting the respective Enrollment Management Offices at those institutions.

## MAILING ADDRESS FOR OFFICIAL TRANSCRIPTS

Official high school, college or university transcripts required for admission must be mailed directly to: Office of Enrollment Management, Mesalands Community College, 911 South Tenth Street, Tucumcari, NM 88401. Transcripts which are hand-carried to the College by the student are not considered official.

## EDUCATIONAL PLANS OF STUDY

Educational Plans of Study are kept on file in the Office of Enrollment Management. An Educational Plan of Study lists specific courses which are required to earn a degree or certificate. An Educational Plan of Study may reflect changes which have occurred within the discipline.

Additional information about student records, policies, and procedures is detailed in the "Educational Requirements" section of the College catalog.

## TUITION AND FEES

It is the policy of Mesalands Community College to provide the highest quality of instruction at the lowest possible cost. Tuition is based on a student's state of residence.

Students who wish to be classified as in-state residents for tuition purposes must conform to the New Mexico Higher Education Department standards. See the Office of Enrollment Management for guidelines.

As previously stated, tuition and fees are subject to change. Students should refer to the current semester course schedule for more current information.

## PAYMENT OF FEES

Tuition and fees are due and payable in full before classes begin. Payment can be made by check, money order, cash, or credit card at the Business Office/Cashier's window in Building A. Payment by mail may be made by check or money order payable to Mesalands Community College. For payment by credit

### Tuition:

- State Resident
  - \$63.00 per credit hour
- Non-Resident
  - \$116.00 per credit hour

**Business Office Hours:**  
**8am-5pm**

### College-wide Fees:

(The following fees are non-refundable)

- Course and Laboratory Fees -- Varies by Course
- \$18 Drop/Withdrawal Fee
- \$35 Dishonored Check Fee
- \$30 Distance Education Site Fee (per course)
- \$30 Graduation Fee, Degree (each)
- \$55 Graduation Fee, Degree Late Charge
- \$30 Graduation Fee, Additional Degree (each)
- \$30 Graduation Fee, Certificate (each)
- \$55 Graduation Fee, Certificate Late Charge
- \$30 Deferred Payment Plan Fee
- \$10 Deferred Payment Plan Fee Late Charge
- \$30 Institutional Enrollment Fee
- \$10 Institutional Enrollment Fee, Late Charge
- \$10 Security Photo ID
- \$3 Student Activity Fee (per credit hour)
- \$25 Success Assessment/Placement Test
- \$7 Technology Fee (per credit hour)
- \$4 Transcript Fee (mailed)
- \$12 Transcript Fee (faxed)

card, please contact the Business Office. Students will be dropped from registered classes if all tuition and fees have not been paid by the end of regular enrollment.

## DEFERRED PAYMENT

For an additional fee, students may pay for tuition and fees in installments. The payment plan allows up to three tuition and fees installments. Students who elect to use the deferred payment plan must complete and sign a plan agreement (available from the Business Office). If a student defaults on the deferred plan, a late fee will be applied per the agreement and this service will be denied to the student in the future.

## TUITION REFUND POLICY

### REGULAR SEMESTER

Students who withdraw from a course will receive a 100% tuition refund through the last day of the week of regular enrollment. The refund for students withdrawing through the last day of the first week of the semester is 75%, through the last day of the second week 50% and through the second day of the fourth week 25%. After the first day of the fourth week there is no refund for students who withdraw.



Note:

- Refund checks will not be processed for any class until after the end of the refund period.
- In cases of disciplinary suspension or dismissal, the eligibility for refund will be entirely at the discretion of the College.
- Mailed notices of withdrawal must include the appropriate withdrawal fee. The rate of refund will be based upon the date the notice is received by the College.

All students who receive financial aid must go through the Financial Aid Office before withdrawing from any college course or courses.

## **SHORT TERM COURSES/COMMUNITY EDUCATION COURSES**

There is no refund after the class begins.

## **CANCELLATION OF CLASS**

In the event that a class is cancelled after payment is made, a refund will be issued no later than two weeks after the class would have started.

## **FINANCIAL AID**

Students who apply for financial aid must apply each year in order to qualify for available funding. Information and forms may be obtained from the Financial Aid Office. Although applications are accepted on a revolving basis, the priority deadlines are March 31 for the fall semester and Oct. 31 for the spring semester. For further information, contact the Financial Aid Office, which is open from 8 a.m. to 5 p.m. weekdays.

## **FINANCIAL AID PROGRAMS**

Most financial aid programs require the completion of the Free Application for Federal Student Aid (FAFSA), which is available on the Internet at: <http://www.fafsa.ed.gov/>. You may qualify to receive funding from more than one of these sources:

- Pell Grant
- Federal Student Loans
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- College Work Study (state and federal)
- New Mexico College Affordability Grant
- New Mexico State Student Incentive Grant (SSIG)
- New Mexico 3% Scholarship
- New Mexico Legislative Lottery Scholarship
- Legislative Endowment Scholarship
- Veteran's Benefits (Students who wish to certify for Veteran's Benefits must submit a written request to the Office of Enrollment Management prior to the beginning of each semester)

## **STUDENTS' RIGHTS AND RESPONSIBILITIES**

Your Mesalands Community College Letter of Award is based on three things:

1. Information you submit to the Financial Aid Office
2. Estimates of available funds.
3. Anticipated number of applicants applying for financial assistance.

Students seeking financial assistance in order to meet educational expenses have specific Rights and Responsibilities accompanying their offer. These Rights and Responsibilities are identified as follows:

### **Rights:**

As a financial aid applicant, you have the right to:

1. Be informed of financial aid deadlines for submitting the necessary applications and supporting documents.
2. Expect equitable treatment under the College's policy prohibiting discrimination on the basis of race, creed, age, sex, handicap, or national origin
3. Expect that all information reported by you and/or your family will remain confidential and cannot be released without your written consent according to FERPA.
4. Examine records in the Financial Aid Office which relate to your financial aid file according to FERPA, within two weeks of request.
5. Know on what basis your financial need was determined such as the elements considered in estimating your cost of attendance and expected family contribution.
6. Request a review of any decision you feel warrants consideration due to circumstances beyond your control.
7. Know the cost of attendance.
8. Know how much aid you are eligible for by semester and when/how it will be disbursed.
9. Be informed of financial aid programs which are available to you.
10. Be informed of the financial aid awarding procedure.
11. Know the terms of any employment programs you are offered.
12. Be informed of the College's refund policy.
13. Know Mesalands' definition and determination of Satisfactory Academic Progress.
14. Know our appeals process.

### **Responsibilities:**

As a financial aid applicant, you have the responsibility to:

1. Acquire the necessary forms.
2. Acquire the necessary information to apply for aid, Mesalands' aid policies, and important dates by reviewing Mesalands' Financial Aid Office publications.



3. Submit all forms by the advertised deadline.
4. Read materials sent to you thoroughly.
5. Keep copies of all relevant documentation for financial aid consideration.
6. Comply with all rules governing the aid received.
7. Apply annually for each year you wish to receive financial aid.
8. Notify the Financial Aid Office of changes of information you supplied on application materials.
9. Notify the Financial Aid Office of any scholarship awards or other extended tuition aid.
10. Notify the Office of Enrollment Management of any name and/or address changes.
11. Acquire and complete job application for work study positions, if awarded.
12. Contact the Financial Aid Office for changes in enrollment status (withdrawal from the College, dropping below half-time, or transferring to another college).
13. Return all missing and incomplete documentation to the Financial Aid Office upon receiving a letter requesting the information.
14. Read and understand Mesalands' Satisfactory Academic Progress Policy.

## SATISFACTORY ACADEMIC PROGRESS

Federal regulations require that students meet certain academic standards in order to be eligible for federal financial aid. To ensure financial aid recipients are making Satisfactory Academic Progress, academic transcripts are reviewed at the end of each semester to determine eligibility for the next semester. All terms of attendance are reviewed, including periods in which the student did not receive financial aid.

Summer terms are treated the same as fall and spring semesters for the purpose of Satisfactory Academic Progress.

In order to remain in good standing for financial aid, students must meet the following standards:

- **Qualitative Progress** – Students must maintain a cumulative grade point average (GPA) of at least a 2.0. Withdrawals and audited classes are not used for determining GPA.
- **Quantitative Progress – Maximum Time Frame** Federal regulations require a student to complete all course work for their program within 150% of the published length of the educational program. This includes credit hours for transfer courses, withdrawals or repeat courses. For example, if a degree requires 66 credit hours, the student may attempt 66 credits multiplied by 150% or 99 credit hours before they are ineligible for financial aid.
- **Pace of Progression** – Students must complete 67% of the semester hours (registered credit hours) attempted at Mesalands Community

College. Any course with a grade of Withdrawal (W), Incomplete (I), Audit (AU), or Fail (F), is not considered completed course work.

Semester	Earned/ Attempted Credit Hours	Total Earned Hours	Total Attempted Hours	Percent Completed (Cumulative)
1	10/15	10	15	66.7
2	15/18	25	33	75.8
3	6/9	31	42	73.8
4	18/18	49	60	81.7
5	18/18	67	78	85.9

If a student withdraws from a course(s) or takes an incomplete in a course, the credit hours will count as hours attempted, rather than hours completed. This may affect a student's quantitative progress, both in the maximum time-frame and pace of progress. When an incomplete grade changes, the student may request that their satisfactory academic progress be re-evaluated at that time. If there is not a request, then it will automatically be re-evaluated after the student completes the next semester.

Required pre-collegiate courses for credit do affect a student's enrollment status, GPA, and completion rates. Non-credit courses are not reflected on a student's transcripts and therefore, are not calculated into the enrollment status, GPA or completion rate. Students are allowed up to a maximum of 30 credit hours for pre-collegiate courses.

Students are allowed to repeat courses that meet prerequisite or degree requirements while they are receiving financial aid. The new grade will replace the old grade when calculating the cumulative GPA, regardless of any improvement in the grade. The credit hours for the original course and repeated course will be counted in the earned and attempted hours for completion rate calculation.

Students who transfer into a degree program at Mesalands Community College will have the transfer hours calculated with the attempted and earned hours for purposes of Satisfactory Academic Progress.

Students who change their degree program or pursue a second degree at Mesalands must request a transcript evaluation to determine how many hours will be needed to earn the new degree before they will be considered for financial aid. Once the number of remaining hours needed is determined, the student will be allowed 150% of that total to obtain the degree while being eligible for federal financial aid.

If a student fails to meet the requirements of satisfactory academic progress, he or she will be placed on Financial Aid Warning for one semester and will be able to receive financial aid the next semester. If a student fails to meet requirements during the second semester, he or she will be denied financial aid. A student may be released from Financial Aid Warning or become eligible again by reestablishing satisfactory academic progress.

Once a student has been denied financial aid for adverse academic progress, the student may submit a Petition for Reinstatement of Financial Aid if there were unusual, mitigating, or extreme circumstances beyond the student's control. Examples may include, but are not limited to, prolonged and/or severe illness under a physician's care for the student or a dependent, accidents requiring hospitalization, or death of an immediate family member. Documentation is required to support the circumstance. The petition will be presented to the Financial Aid Appeals Committee for a decision. Applications must be received ten days prior to the start of a semester for consideration.

If an appeal is denied or a student does not have unusual or mitigating circumstances, the student remains ineligible to receive financial aid. He/she may reestablish eligibility for federal and state financial aid programs by successfully meeting the Satisfactory Academic Progress requirements based on his/her cumulative hours and GPA.

The student will not be able to receive financial aid beyond the 150% of the degree program after they have reestablished other requirements of satisfactory academic progress.

If the student's petition is approved by the committee, the student will be placed on Financial Aid Probation for one semester. If the student cannot re-establish Satisfactory Academic Progress after the probationary semester, he/she will be placed on an Academic Plan until he or she has met the Satisfactory Academic Progress requirements. The student must then follow all terms of the Academic Plan in order to continue to receive financial aid. If the student does not meet the Academic Plan requirements, the student will be denied all financial aid at the College.

## **RETURN TO TITLE IV FUNDS POLICY**

If a student receiving federal Title IV funds completely terminates enrollment (begins the official withdrawal process) or ceases to attend classes (unofficially withdraws) before the end of a payment period, a recalculation of Federal Financial Aid is required by federal regulations to determine the earned and unearned portions of Title IV aid (Student Loans, Pell Grant and/or Federal Supplemental Educational Opportunity Grant [FSEOG]).

A student may officially withdraw from Mesalands Community College by completing a "Withdrawal Form" from the Student Affairs Office. The student must complete and sign the form. The form must then be signed by the student's faculty advisor, a staff member from the Business and Financial Aid Office. The form must then be turned into Student Affairs for processing. This process must be completed by the published withdrawal deadline on the Institutional Calendar found in the College Catalog

and/or current Course Schedule. A copy of the form will be sent to Financial Aid, the instructor, and the Business Office for notification. The withdrawal date will be the date processed by Student Affairs. Up through the 60% point in the payment period, a pro-rata schedule is used to determine the amount of Title IV funds the student has earned at the time of withdrawal. The amount of Title IV aid earned or unearned is determined by using the Return of Title IV Funds software provided by the U.S. Department of Education. All calculations are based on credit hour term programs.

After the 60% point in the payment period, a student has earned 100% of Title IV funds he or she was scheduled to receive during the period. For a student who withdraws after the 60% point, there are no unearned funds.

For students who unofficially withdraw, the 50% point of the payment period will be used for calculation. If there is proof that a student was academically involved in a class after this point, the provided date will be used in the calculation.

A letter will be mailed to students with notification of a recalculation. The amounts due to the school and/or the United States Department of Education will be included in this letter. A copy of the letter, the recalculation worksheets, and any withdrawal information will then be placed in the student's financial aid file.

The unearned aid portion due from the College is returned within 45 days of the determination of withdrawal date. Federal regulations specify the order in which unearned funds are to be returned. Funds are turned as follows:

1. Unsubsidized Federal Direct Loan
2. Subsidized Federal Direct Loan
3. Federal Pell Grant
4. FSEOG

The earned portion of the awards will be posted to the student's account, thus reflecting the new amount owed by the student. The student will be billed for the amount owed to the Title IV programs and any amount due to the College resulting from the return of Title IV funds used to cover College charges.

If a student has a credit balance after the calculation the student will be notified to pick up their check from the business office. If the check is not picked up within 14 days, the student's check will be mailed to address on file. If the check is not cashed or deposited within 365 days, a stop payment will be placed on the check and the funds will be returned to the appropriate Federal financial aid program.

## SCHOLARSHIPS

### MESALANDS COMMUNITY COLLEGE INSTITUTIONAL SCHOLARSHIPS

Mesalands Community College is very fortunate to have a number of institutional, Foundation and community-based scholarships available for students. Each scholarship has specific qualification requirements. Students interested in applying for scholarships should contact the Financial Aid Office for the following scholarship opportunities:

**Bridge to Success and High School Equivalency (HSE) Scholarship** was created for New Mexico high school graduates entering Mesalands Community College the semester following graduation. The scholarship is a stepping-stone to the New Mexico Legislative Lottery Scholarship.

**Dual Enrollment Success Scholarship** was created for New Mexico High School graduates who successfully complete courses at Mesalands while in high school and who choose to further their education at Mesalands Community College.

**HSE Presidential Scholarship** was created to benefit the recipients of the HSE through the Educational Services Center at Mesalands Community College who have a FAFSA on file in the Financial Aid Office. The scholarship will pay up to 15 credit hours of tuition for students who enter Mesalands the semester following successful completion of their HSE.

**Rodeo Non-Resident Grant** was established for Rodeo students residing outside of New Mexico. The award is calculated as the difference between in-state and out-of-state tuition.

**Rodeo Stampede Scholarship** was created for students who are members of the Mesalands Community College Rodeo Team.

### MESALANDS COMMUNITY COLLEGE FOUNDATION, INC., SCHOLARSHIPS

**Alta McClelland Scholarship** was established by her husband, Bob McClelland, Sr., in loving memory of Alta. She believed in post-secondary school education and firmly believed it was necessary for success.

**Bernard Franz Fine Arts Scholarship** is a scholarship established by Bernard Franczek to make it possible for others to enhance their visual and spiritual lives, as well as to spread the joy of the Fine Arts Department.

**C.W. and Sara Dee McMullen Scholarship** serves underrepresented, low-income or educationally disadvantaged New Mexico students. Dual enrollment in-state high school students with a minimum GPA of 2.0 may apply.

**Chili Currier Endowed Scholarship Fund** is a scholarship established by the New Mexico Land Title Association. It honors "Chili Currier's" long time support of New Mexico residents seeking a college education. Applicant must be a U.S. Citizen and New Mexico resident, a New Mexico high school or HSE graduate with a 3.0 or better GPA, and must demonstrate significant financial need.

**Dr. Muriel Latham-Pfeifer Scholarship** for Women was established by Dr. Latham-Pfeifer as a "revolving scholarship" for women returning to college to finish their education.

**G. Wilbur Jones Memorial Scholarship** was established by H. Barton Jones in memory of the late G. Wilbur Jones, who founded The First National Bank of Tucumcari in 1901. As G. Wilbur Jones was a graduate of Tucumcari High School. The scholarship is offered only to Tucumcari High School graduates seeking an associates degree at Mesalands Community College.

**George and Aurora Barry Memorial Scholarship** was established by Dr. Phillip O. Barry and his wife April. The scholarship was established in memory of Dr. Barry's parents. Recipient must be at least 25 years of age and carry six or more credit hours per semester. Continuation is based on a minimum 2.5 GPA.

**Hispanic Opportunity Grant** was established by the Mesalands Community College Foundation, Inc. Annual Hispanic Scholarship Fundraiser. This grant is available for full-time (15 credits) or part-time (6 credits) freshmen at Mesalands Community College. The recipient must be a New Mexico high school or HSE graduate with a 2.0 GPA, who is of 25% or greater Hispanic descent.

**Ingram Family Scholarship** was established by the children and families of Herbert W. and Hazel R. Ingram to honor their memory and recognize the family's 65-year role in the life of the community of Tucumcari. The recipient must be a New Mexico resident, but preference will be given to a Quay County resident with a 2.5 GPA or higher.

**Meagan McCain Memorial Endowed Rodeo Scholarship** is for female rodeo students. Meagan was an outstanding student and competitor who epitomized what the Mesalands Community College Rodeo Program strives for in their student athletes. This scholarship was established to build and maintain the integrity of the Mesalands Community College Rodeo Team.

**Shrimp Boil Scholarship** is general in nature and includes funds raised from the Mesalands Shrimp Boil. It is a one-year scholarship for freshmen who are full-time



students (15 credits) and high school graduates with a minimum 3.0 GPA.

**Mesalands Rodeo Scholarship** was established for full-time (15 credits) Mesalands Community College students with previous rodeo experience and a 3.0 GPA. There is a preference for freshman students.

**Murphy Scholarship in Geology and Paleontology** was established by David Murphy after he visited the Mesalands Community College's Dinosaur Museum. Preference may be given to high school students who volunteer at the Museum, and who are taking dual credit courses and are Geology or Paleontology majors.

#### **New Mexico Student Loans Endowed**

**Scholarship** was established to provide financial assistance to students who demonstrate financial need.

**New Mexico Outdoor Drama Association, Inc.** established a scholarship to enable students to pursue a career in Drama or the Arts. It may also be used by those pursuing an Associate of Arts degree. Preference is given first to Quay County students, then to New Mexico students, then to out-of-state students.

**Shanks Family Scholarship** was established by Howard and Laura Shanks to provide scholarships in Geology or Physical Sciences. The Shanks are long-time supporters of Mesalands Community College's Dinosaur Museum. Applicants must be full time students (15 credit hours), have a 2.0 or better GPA, and be a Northeastern New Mexico high school or HSE graduate.

**Steve Legion Memorial Scholarship** was established in memory of Steve Legion, a graduate of the Class of 1963 at Tucumcari High School. The applicant must be a graduate of Tucumcari High School with a GPA of 2.5 or better. Preference is given to students involved in athletics, student government or other activities demonstrating leadership and/or involvement.

**Tex. E. Haase Memorial Scholarship** was established in memory of Tex. E. Haase, who served on the College's Board of Trustees. Mr Haase believed that anyone interested in pursuing an education should have the opportunity to do so. The scholarship is for a resident and a graduate of Quay County who has a 2.8 or better GPA. The recipient must maintain a minimum 2.0 GPA while attending Mesalands Community College.

**THS Class of 1960 Rattler Scholarship** was established to benefit low income Rattler alumni (or members of their immediate family) who wish to pursue a degree of higher education at Mesalands Community College. The recipient must maintain a 2.5 GPA or better.

**Title V General Scholarship Fund** was established in part by the U.S. Department of Education under the Higher Education Act, Title V, and community donations. The purpose is to serve underrepresented, low-income or educationally disadvantaged students with a 2.0 or better GPA. It may be applied for dual enrollment expenses at Mesalands Community College.

## **MESALANDS COMMUNITY COLLEGE COMMUNITY-BASED SCHOLARSHIPS**

Mesalands Community College works closely with many community-based organizations to provide the best resources for our students. Following is a list of those organizations and contact information.

**Altrusa International Scholarship** is a scholarship designed to assist with vocational study/training and is awarded on the basis of need, academic performance, leadership, and other personal factors. Contact Altrusa International at PO Box 243 in Tucumcari for further information.

**Citizens Bank Scholarship Trust** provides scholarships for tuition or books to citizens of Quay County who wish to attend Mesalands Community College. The applicant must be a full time student in order to be awarded this scholarship on a per semester basis. Contact the College's Office of Financial Aid for further details.

**Eastern Plains Community Action Agency (EPCAA) Book Scholarship** is a \$100 scholarship to be used to help students purchase required books. Contact EPCAA at (575) 461-1914 for more information.

**Farmers' Electric Education Foundation Scholarship** Fund was created to benefit those who receive service from Farmers' Electric Cooperative, Inc. of NM and their immediate family members. Contact the Farmers' Electric Foundation at (575) 762-4466 or 1-800-445-8514.

**Father Robert Hammond Scholarship** was created to benefit the graduates of Tucumcari High School who attend college in New Mexico and are members of St. Anne's Catholic Church. For more information and for an application, please contact C.J. Wiegel, Tucumcari General Insurance, P.O. Box 1304, Tucumcari, NM 88401, (575) 461-1623.

**House Cooperative** offers a \$500 scholarship for House High School seniors who are members of the House Cooperative and who plan to attend a vocational school, two-year college, or four-year university upon graduation. A separate \$150 scholarship is also offered to any student interested in attending Mesalands Community College. Contact the House



Cooperative at (575) 279-6477 or (877) 279-6744 for more information.

**Marty Samson Scholarship** was established to assist students who wish to further their education at Mesalands Community College. It is primarily for New Mexico residents and covers up to \$50 for textbooks. Contact the College's Office of Financial Aid for further details.

**Ralph B. Drake Memorial Scholarship** was created to provide funds for tuition, fees, or books to New Mexico residents who wish to attend Mesalands Community College. Contact the College's Office of Financial Aid for further details.

Brochures describing current assistance, grants, and scholarships are available at the Financial Aid Office.

## FINANCIAL AID DISBURSEMENT

Financial Aid checks are disbursed twice each semester by the Business Office. Students who withdraw from classes after they have received financial aid may be entitled to a disbursement of their educational expenses. A portion of the disbursement may have to be returned to the financial aid programs. Students who receive Federal Title IV funds will be subject to the Federal Return of Title IV Funds Policy. Students who receive state or institutional aid will be subject to the Mesalands Community College refund policy. The calculation of the return of these funds may result in the student owing a balance to the College and/or the Federal Government. Further details and examples can be obtained at the Financial Aid Office.

### FINANCIAL AID DISBURSEMENT TIMELINE: FALL

Student must be enrolled in courses, complete all necessary paperwork, and be verified by Financial Aid in order to receive their disbursements as follows:

#### Disbursement - Mid September

Three-quarters of the student's financial aid award will be disbursed first to the student's account with any remaining credit amount to be disbursed to the student.

Students must pick up their check within 14 days of disbursement date. If check is not picked up within 14 days, the student's check will be mailed to mailing address on file. If the check is not cashed or deposited within 365 days, a stop payment will be placed on the check and the funds will be returned to the appropriate federal financial aid program.

#### Disbursement - Mid November

The remaining quarter of the student's financial aid award will be disbursed to the student's account with any remaining credit amount to be disbursed to the student.

Students who have not completed all necessary paperwork or who have been chosen for verification will be processed as follows:

- Students completed and verified by the second week of the semester will have three-quarters of their funds disbursed mid September. The remaining quarter of their funds, will be disbursed mid November.
- Students completed and verified after the second week of the semester will have their funds disbursed mid November.

### FINANCIAL AID DISBURSEMENT TIMELINE: SPRING

Student must be enrolled in courses, complete all necessary paperwork, and be verified by Financial Aid in order to receive their disbursements as follows:

#### Disbursement - Mid February

Three-quarters of the student's financial aid award will be disbursed first to the student's account with any remaining credit amount to be disbursed to the student.

Students must pick up their check within 14 days of disbursement date. If check is not picked up within 14 days, the student's check will be mailed to mailing address on file. If the check is not cashed or deposited within 365 days, a stop payment will be placed on the check and the funds will be returned to the appropriate federal financial aid program.

#### Disbursement - Mid April

The remaining quarter of the student's financial aid award will be disbursed to the student's account with any remaining amount to be disbursed to the student.

Students who have not completed all necessary paperwork or who have been chosen for verification will be processed as follows:

- Students completed and verified by the second week of the semester will have three-quarters of their funds disbursed mid February. The remaining quarter of their funds, will be disbursed mid April.
- Students completed and verified after the second week of the semester will have their funds disbursed during mid April.

## FEDERAL DIRECT STUDENT LOANS

**Subsidized:** Direct subsidized loans are federally guaranteed loans based on financial need. Interest does not accrue on the loan while you are in school at least half time, or during any future deferment periods. The federal government “subsidizes” (or pays) the interest during this time. Subsidized Loans cannot exceed the Cost of Attendance.

**Unsubsidized:** Direct unsubsidized loans are federally guaranteed loans that are not based on financial need. Interest does accrue from the time the loan is disbursed to the school. Unsubsidized Loans cannot exceed the Cost of Attendance.

**\*\*Direct Loan Program regulations provide that a new borrower on or after July 1, 2013 is subject to a Maximum Eligibility Period which is equal to 150% of the published length of the student’s academic program.**

Student loans are not automatically awarded, students who are interested in receiving a student loan to assist with educational costs, must contact the Financial Aid office. Students must complete a Master Promissory Note (MPN) and Entrance Counseling prior to disbursement of funds. If student has not received federal student loan funds before, there is a mandatory 30-day waiting period, before funds can be disbursed, not prior to first regular disbursement.

To be eligible for Federal Student Loans students must meet the following criteria:

- Student must have a valid and complete financial aid file, including a current FAFSA application and necessary verification documents.
- Official high school transcript or high school equivalency transcript must be received by Student Affairs.
- Student must be making Satisfactory Academic Progress in order to be awarded a loan, and have a minimum cumulative GPA of a 2.0.
- Student cannot be in DEFAULT on a Federal Education Loan or owe a repayment of Federal Title IV aid.
- Transfer students must complete a NEW Master Promissory Note (MPN). These requirements can be completed at [www.studentloans.gov](http://www.studentloans.gov).
- Deadlines to apply for federal student loans are as follows:
  - o Fall Semester – October 15th
  - o Spring Semester – March 15th
  - o Summer Semester - June 15th

## ENTRANCE COUNSELING

Students who are interested in obtaining a federal student loan to assist with educational costs must complete entrance counseling prior to disbursement of funds. Federal Government requires you to complete entrance counseling to ensure that you understand the responsibilities and obligations you are assuming.

To complete entrance counseling, visit [www.studentloans.gov](http://www.studentloans.gov), you will need:

- Approximately 20-30 minutes to complete.
- An FSA ID (same as used to complete your FAFSA).
- List Mesalands Community College to be notified of counseling completion.

## EXIT COUNSELING

Federal Government requires you to complete exit counseling upon leaving school, graduating or dropping below half time enrollment.

Exit counseling provides important information you need to prepare to repay your federal student loan(s). If you have received a subsidized, unsubsidized or loan under the Direct Loan Program, you must complete exit counseling each time you:

- Drop below half-time enrollment
- Graduate
- Leave School

To complete exit counseling, visit [www.studentloans.gov](http://www.studentloans.gov), you will need:

- Approximately 20-30 minutes to complete.
- An FSA ID (same as used to complete your FAFSA).
- List Mesalands Community College to be notified of counseling completion.

Note: Students must log in using their own FSA ID to complete Exit Counseling. Use of another person’s FSA ID constitutes fraud. Use only your own FSA ID information.

## PRIVATE LOAN DISBURSEMENT

All private loans received on behalf of a student will be processed within five business of receipt.

ANNUAL LOAN LIMITS PER GRADE LEVEL						
	Dependent			Independent		
	Subsidized	Unsubsidized	Total	Subsidized	Unsubsidized	Total
Freshman (0-30)	\$3,500	\$2,000	\$5,500	\$3,500	\$6,000	\$9,500
Sophomore (30+)	\$4,500	\$2,000	\$6,500	\$4,500	\$6,000	\$10,500

# STUDENT AFFAIRS

## STUDENT ORIENTATION

Students who have applied for admission are invited to attend an orientation session at the beginning of the fall and spring semesters. Students are provided with a substantial amount of information regarding registration, available services, policies, student organizations, and other student information. This orientation is provided as a way of keeping students informed and encouraging them to become involved in campus life.

## STUDENT INFORMATION SYSTEM

The Student Information System (SIS) consists of TV monitors in all College buildings and is used to convey important and timely information to students. Postings are approved by the Vice President of Student Affairs.

## COLLEGIATE ADVISING

### ACADEMIC ADVISING

Mesalands Community College realizes the importance of decisions students make which affect their educational pursuits. Advisors are available to assist students in making decisions involving personal matters related to their education, assessments, skill levels, educational planning, transfer options, and career planning.

Academic advisors can assist students with resolving problems and finding alternative solutions. The adviser can also provide referrals on study skills, tutoring, stress, and adjusting to college life. These services are provided to full-time, part-time and potential students.

### FACULTY ADVISING

Although some entering students may be relatively sure about their career goals, a number of others need assistance in developing educational plans. Therefore, one of the first steps Mesalands Community College implements after admission is designating a faculty adviser for each student through the Office of Enrollment Management.

Faculty advisers assist both new and returning students in choosing classes and designing degree plans. In addition, Student Affairs staff are available to provide assistance and support if students need career information, testing, etc. All students are ultimately respon-

sible for decisions regarding their own course selections and degree plans.

## EMERGENCY ALERT SYSTEM

In the event of an on-campus emergency, the College utilizes a variety of technologies to notify students and staff of the emergency and to advise them as to what actions to take.

Emergency alerts are displayed on the Student Information System screens and messages are put on campus voice mail and phone intercoms. Also, emergency alerts are sent to students' email addresses and text messages are sent to students' cell phones. Students should register to receive emergency emails and text messages at Student Affairs or at [www.mesalands.edu](http://www.mesalands.edu) at the beginning of each semester.

## STUDENT GOVERNANCE

### CAMPUS STUDENT GOVERNANCE

Students at Mesalands Community College are encouraged to voice their opinions on issues and matters of general interest to the student body. Students have the opportunity to participate in governance by joining the Student Government Association. The president of the Student Government Association is also a member of the Student Affairs Committee. Students interested in active involvement should contact a Student Affairs staff member.



Student Government Association is open to all students at Mesalands Community College. One of the goals of Student Government Association is to assume the responsibilities of participatory governance in a joint effort among students, faculty, staff, and administration.

## THE STUDENT AFFAIRS COMMITTEE

The Student Affairs Committee acts as a liaison between the students and the institution concerning questions, ideas, and needs. One of its functions is to make recommendations to the Vice President of Student Affairs regarding student life.

## STUDENT ORGANIZATIONS

In addition to the Student Government Association, there are several other student organizations:

### ORGANIZATIONS

**Astronomy Club** is open to all students interested in astronomy. The club sponsors worthwhile events and raises money to offset any costs of materials, conferences, or field trips.

**Chi Alpha/College Christian Fellowship** promotes the spiritual life of the students of Mesalands Community College by providing opportunities for worship, fellowship, discipleship, witness, and prayer. Chi Alpha meets periodically in small and large gatherings. Students assume the planning and scheduling of all meetings and special events. Chi Alpha is a non-discriminatory organization.

**ENACTUS (Entrepreneurial Action Us)** is a nonprofit organization that gives students the tools to learn the free enterprise system in a real work situation. Guided by faculty advisors (who are named Sam M. Walton Free Enterprise Fellows in honor of the late WalMart founder, S.I.F.E.), teams establish a variety of community outreach programs that concentrate on free enterprise. Help is given to budding entrepreneurs to get their plans off the ground. Mentors are available for at-risk students, inspiring them to reach for their dreams.

**Gamers Guild** was created to provide a way for people at Mesalands Community College who enjoy gaming to meet others with similar interests. "Gamers," in this case, is defined as the diverse multi-player games that are separate from traditional sports activities. These include, but are not limited to: role playing, card games, collectible trading card games, board games, multi-player computer games, and tabletop war games.

The **General Education Development (GED) Club** exists to raise and distribute funding to assist students in the Adult Education (program who need financial assistance in paying High School Equivalency test fees

**Hispanic Heritage Club:** ¡Amistad! is for students taking Spanish as a foreign language and also for those who speak Spanish or are interested in the cultural aspects of Spanish-speaking countries.

**Horse Club** has been established to attract prospective students interested in horses to enroll at Mesalands and to allow eligible students to partici-





pate in horse show competitions as a member of the National Intercollegiate Horse Show Association (IHSA) and to represent Mesalands at IHSA events. The club increases and maintains the interest of the Mesalands students in the sport of intercollegiate show, horsemanship, and sportsmanship.

**Hot Metals Club** is a student organization sponsored by Fine Arts/Foundry.

**Mesalands Experienced Student Association (MESA)** is designed to provide support and advocacy to nontraditional students at Mesalands Community College. Membership is open to any Mesalands student who fulfills membership requirements (any undergraduate student who is 24 or older, or any student under 24 who considers him or herself a nontraditional student).

**Native American Club** promotes increased awareness and cultural understanding of the indigenous people of America at Mesalands Community College and the respective community. Membership is open to any student of Mesalands Community College.

**Natural Sciences Club** provides an opportunity for students to gain knowledge of their surroundings. Innovative field trips and informative lectures with topics ranging from astronomy to paleontology are provided through the Natural Sciences Club. Hands-on experience is emphasized through cooperative work in the Mesalands Dinosaur Museum and Natural Sciences Laboratory where the scientific method is put to practical use. This organization offers students a chance to broaden their horizons while giving the community an opportunity to share in a culturally enriching experience.

**Phi Theta Kappa International Honor Society** membership is based on academic achievement. The Society offers students leadership opportunities, lifetime membership, opportunities for intellectual enrichment and personal development through scholarship, leadership, service and fellowship.

**Robotics Club** promotes increased awareness in the sciences and the field of robotics at the College and the respective community. Membership is open to any student enrolled in credit-bearing classes at Mesalands.

**Rodeo Club** offers students with an interest in rodeo the opportunity to develop their skills and participate in various rodeo events. The club attends and hosts rodeos, team roping competitions, and dances.

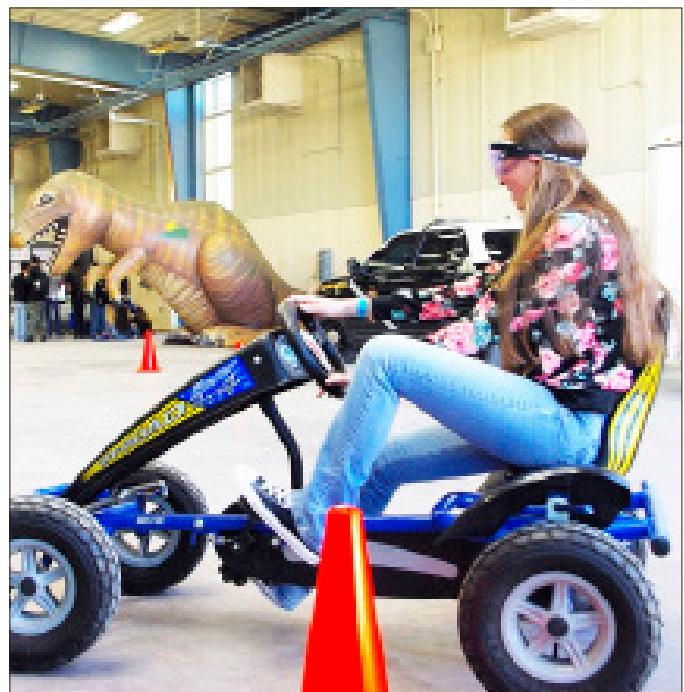
**SkillsUSA Club** is open to students enrolled in an Occupational Education Program. SkillsUSA is a partnership of students, teachers and industry working together to ensure a skilled American work force. The Skills USA Club offers students an opportunity to develop their job and industry skills and to participate in various related events.

**Student Horseshoers Organization for Excellence (S.H.O.E.)** encourages students with an interest in horses and horseshoeing to participate in the club. S.H.O.E. is a member of the New Mexico Professional Horseshoers Association and is actively involved in national farrier associations. The club attends and hosts clinics, competitions, and certifications related to horseshoeing and horses. It also sponsors recreational activities.

**Wind Energy Technology Club** is open to students enrolled in the Wind Energy Technology Program. The club has three areas of focus: 1) Career awareness - to increase awareness in the wind energy industry of the Wind Energy Technology Program at Mesalands Community College; 2) Educational enhancement - to gather resources that will enhance the education and training areas of the Wind Energy Technology Program; 3) Community involvement to develop local relationships through involvement in community activities and projects.

## SPORTS

Intercollegiate Rodeo was introduced as Mesalands' first intercollegiate sport in the fall semester of 1998. The College is a member of the National Intercollegiate Rodeo Association and competes in the Grand Canyon Region



rodeos, which include New Mexico and Arizona. The co-educational team competes in rodeos in the fall and spring. Students must meet national eligibility guidelines and be enrolled full-time in order to participate in the college rodeos throughout the region. The top athletes from the region compete in the College National Finals Rodeo in June each year.

Intramural Sports may be offered based on student interest. Each semester may include ultimate frisbee, dodge ball, volleyball, basketball, and other sports as interest is expressed by the student body. Students may inquire at the Office of Student Affairs.

## **STUDENTS WITH SPECIAL NEEDS**

Mesalands Community College is committed to helping qualified students with special needs reach their goals. Students requesting special accommodations under the Americans with Disabilities Act must contact their instructor or Student Affairs staff who will advise them of the required process.

Documentation of disability and need for special accommodations must be provided by the student in order for a decision to be made concerning eligibility for the requested services. Approved accommodations will be implemented in a timely manner appropriate to the type of accommodation being requested. For special accommodations information, contact the Vice President of Student Affairs.

## **CAMPUS CENTERS OF STUDENT LIFE**

The campus centers of student life are comprised of several areas in the Mesalands Community College main building: the student Commons area, the Educational Services Center, and the courtyard behind Building A.

Student Commons areas in Mesalands Community College's academic and technical buildings offer places where students meet, socialize, study together, eat, or just visit. The commons areas are designed to meet the immediate needs of students taking classes in a given building, and may provide television, magazines, newspapers, etc.

Vending machines and restrooms are nearby. Many campus-wide student meetings and receptions are held in the commons areas.

## **STUDENT HOUSING**

### **STAMPEDE VILLAGE**

On-campus housing is available at Stampede Village with one and two-bedroom apartments. For information regarding on-campus housing, or a listing of available off-campus housing, contact Student Affairs at (575) 461-4413, ext. 189.



# ACADEMIC AFFAIRS

## LIBRARY AND MEDIA SERVICES

### HOURS OF OPERATION

Monday - Thursday 8:00 a.m. to 8:00 p.m.

Friday 8:00 a.m. to 5:00 p.m.

The Library is located on the main campus in Building A. The Library conforms to the accessibility requirements of the Americans with Disabilities Act. Study tables and computer stations are ADA compliant.

The mission of the Library is to provide a vital collection of materials to meet the needs of students, faculty, and staff and to offer user-oriented library services which contribute to the growth and development of its patrons.

### SERVICES AND MATERIALS

The College Library offers a wide range of services and materials including computers with Internet access, Wi-Fi access, audio-visual materials, online databases and electronic books (eBooks), college catalogs, newspapers, magazines and reference material.

To augment the Library's holdings, networking relationships are established with various consortia.

Material is available via interlibrary loan from ILLiad (Interlibrary Loan Internet Accessible Database) with the New Mexico State Library. The College belongs to

AMIGOS/OCLC FirstSearch, a resource-sharing network which serves more than 600 libraries in the Southwestern United States. Mesalands Community College is one of 55 library members in New Mexico.

In cooperation with the New Mexico State Library and the New Mexico Consortium of Academic Libraries (NMCAL), the College subscribes to over 70 online databases. Many of these databases contain the full-text of newspapers, magazines, scholarly journals and online films. Articles and papers not held locally are often available through these databases and may include an abstract, full-text, illustrations and/or photos. Some of the database vendors are Gale InfoTrac, EBSCOhost, Facts on File, CQ Researcher, Films on Demand, and Infobase. The Library also subscribes to nearly 200,000 eBooks. All databases and eBooks are available to Mesalands' students, faculty and staff.

The Library is open to the public for in-library use of materials. Computer workstations, available for students, faculty, and staff, are equipped with current word processing, graphics, spreadsheet, database and office systems software and Internet access. In order to check out material, students must be currently enrolled at the College and have a valid student ID.

## MATH-SCIENCE LEARNING CENTER

The Math and Science Learning Center is located in Room A110. The Learning Center is a community resource dedicated to enhancing the learning of math and science through curriculum development and best-practices training for college faculty, as well as in-service to K-12 teachers. The Center provides student tutoring and tutor training. The Learning Center is a unique destination in our region for those interested in learning and teaching science and math. The Center seeks to support learning at all age levels and abilities.

The Center offers many services to the Mesalands community including:

- Tutoring in core math and sciences courses
- A venue for professional development using model lab demonstrations, current technology and hands-on techniques
- A research laboratory for observing how math and science are learned
- A library of teacher and student resources
- Workshops that deal with math anxiety, summer Math Camp, etc.





## EDUCATIONAL SERVICES CENTER

The Educational Services Center is a multifaceted department that provides a broad spectrum of learning services and resources for all qualified learners. The center provides students with opportunities to develop or expand educational skills at a number of levels. This includes the most basic areas, from literacy and citizenship, to post-graduation and career services.

### PRE-COLLEGIATE SERVICES

**Adult Education (AE)** -- The AE program offers a variety of services for building basic skills. The program offers free materials and instruction in the following areas:

**Literacy** -- A program designed to help people who cannot read or write the English language.

**English Language Acquisition (ELA)** -- This program provides basic skills for improving spoken English. Students have access to basic, intermediate, or advanced classes to practice basic English. Students are taught basic reading, writing, and conversational skills.

**Career Guidance** -- Students are screened in an effort to determine basic career interests. Guidance in careers, career information, educational opportunities, and employability trends is provided. A primary focus is the selection of career interests.

**High School Equivalency (HSE) Testing Service** -- The High School Equivalency Testing Service offers students 16 years of age or older an opportunity to earn a high school diploma.

Students are pre-tested using the Test of Adult Basic Education (TABE), in an effort to determine specific areas which will require review and work prior to beginning the curriculum. Upon satisfactory completion of the nationally recognized Pearson VUE Test, the student is awarded a New Mexico high school diploma. Mesalands Community College is an official Pearson VUE - Test Center. Testing is available on demand in Tucumcari.

The Pearson VUE Test is on the computer and contains four modules: Mathematical Reasoning, Reasoning through Language Arts, Science and Social Studies.

The High School Equivalency Test (HiSET) is paper-based and contains five tests. Each test is timed and it is recommended by the staff at the Educational Services Center, to have students split the five tests between two days. The HiSET contains five parts that include: Language Arts/Reading, Language Arts/Writing, Mathematics, Science, and Social Studies.

**HSE Presidential Scholarship** -- Individuals who pass the high school equivalency test (HiSET) are eligible for the High School Equivalency (HSE) Presidential Scholarship, covering tuition up to 15 credit hours, to attend Mesalands Community College the semester following the successful completion of the exam.

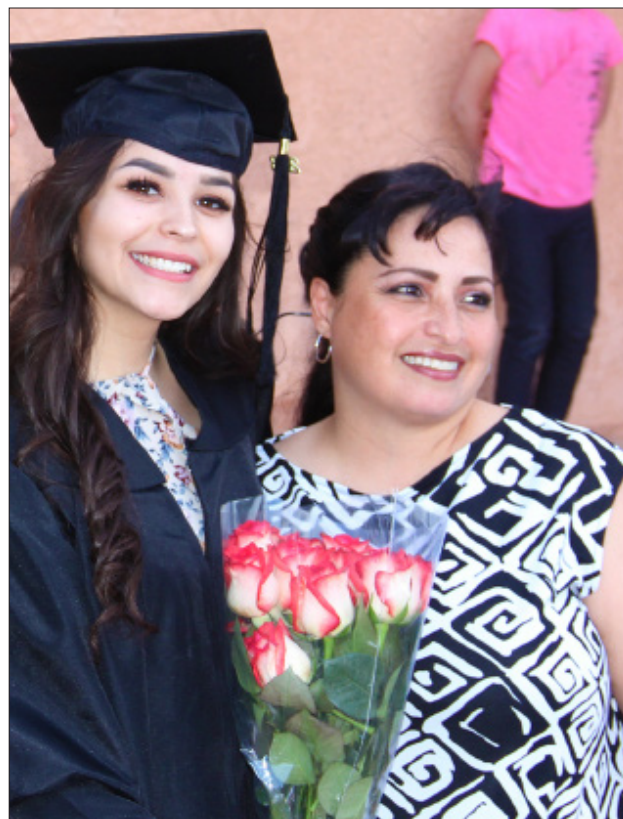
Students must complete a Free Application for Student Aid (FAFSA) and in the event that he or she is eligible to receive the Federal Pell Grant, the Presidential Scholarship will be used to supplement Federal funding up to the cost of tuition, required fees, and required books.

### PRE-COLLEGIATE STUDIES

Pre-Collegiate Studies courses are offered at an introductory level to help students improve their academic abilities to succeed in college-level courses. The primary goal of Pre-Collegiate Studies is to help students acquire the skills and aptitude necessary for college success.

Placement in Pre-Collegiate Studies courses will be determined by scores on the Success Assessment/Placement Test. A student must have a grade of "C" or better in the Pre-Collegiate Studies course in order to qualify for enrollment in the next sequential class in that subject.

Students testing into any pre-collegiate level courses must take at least one pre-collegiate level course per





semester. Additionally, students testing into pre-collegiate reading must take reading their first semester.

**Basic Grammar and Usage** (ENG 099) -- Basic grammar offers intensive instruction in capitalization and punctuation, grammar and usage.

**Basic Writing Skills** (ENG 100) -- This course places emphasis on writing well-developed, grammatically correct essays.

**General Math** (MATH 099) -- Beginning level course includes operations with whole numbers, fractions, mixed numbers, decimals, ratios and percents.

**Pre-Algebra** (MATH 100) -- Pre-Algebra is designed to review operations on fractions and decimals, and introduce students to elementary algebra.

**Fundamentals of Reading and Vocabulary Development** (RED 099) -- This course is designed to develop vocabulary skills and fundamental reading skills.

**Basic Reading Skills** (RED 100) -- This course is designed to improve reading skills and provides the student with reading practice and critical thinking skills.

## COLLEGE SUCCESS SERVICES

Mesalands Community College is dedicated to helping students succeed with their college endeavors. The Educational Services Center assists in providing the following services:

**Success Workshops** -- Various workshops are provided each semester for the students' enrichment. Topics include note-taking skills, academic success strategies, time management and others.

**Individual Instruction** -- Individual instruction is available in the Educational Services Center. Students can speak with any one of the staff members to arrange a schedule.

**Study Skills** -- A variety of individual instructional methods on study skills are available. Audio-visual materials, software programs, and individual assistance are available for student use in the Educational Services Center.

**Peer Tutoring** -- Peer tutoring is available each semester. Hours are posted in the Educational Services Center. Peer tutoring provides students with additional help in specific subject areas offered through the Pre-Collegiate program. Peer tutors are qualified individuals who have progressed through their studies and are

willing to help fellow students. Computer software and other learning aids are available for some programs.

**Self-Paced Programs** -- Self-paced programs, which are available in a number of areas, consist of computer software, audio-visual materials, learning aids, and textbooks.

**Testing Services** -- Testing services are available to students in the Educational Services Center. The center provides scheduled standardized testing in the following areas:

ACCUPLACER Placement Test

High School Equivalency Test (HiSET)

Test of Adult Basic Education (TABE)

**Special Testing** -- Testing accommodations are available for challenged students with special needs. Contact the Educational Services Center to schedule an exam. Verification must be on file in the Office of Student Affairs prior to scheduling the exam.

**Make-up Exams** -- Students may take make-up exams through the Educational Services Center with instructor approval.

**Intervention Support** -- Intervention support takes place when individual faculty members or advising staff feel that a student is in need of additional assistance in academics, basic skill building, or other related areas.

**Faculty/Adviser Referral** -- Referrals are initiated by faculty members or Student Affairs personnel in order to facilitate contact with a student who may need assistance in his/her class work.

## CAREER SERVICES CENTER

The Career Services Center is located in A126 and provides the following services to empower students and first-year alumni to achieve their career-related goals by identifying interests, skills, strengths, and values to explore and choose academic majors and career options through the use of personalized services, resources, and technology:

- resume and cover letter assistance and critiques
- job interview preparation
- job search strategies
- assistance with individual and group career guidance
- career interest inventories
- presentations and workshops
- on-campus recruiting events and information sessions
- career expos

## COMPUTER SERVICES

Mesalands Community College maintains networked computer locations for student use to complement practical applications of techniques taught in the classroom. These systems may be found in two computer classrooms, the Science Laboratory, the Wind Energy Technology classroom, the Library, and the Educational Services Center. These labs provide students with the ability to stay in practice with application packages even after they have completed a course.

These locations provide state-of-the-art computers with high speed Internet access. In addition, all computers are equipped with current word processing, graphics, spreadsheet, database, and office systems software, which are utilized by business and industry. Each computer can print to a networked laser printer and may be accessed by any computer on campus. In addition, instructional support is provided by means of a video projection system that projects the instructor's computer screen movements on a large screen. Students may see instructional commands as they are demonstrated. This enhances the learning process. The Library features eight computer sites for student research. Each computer prints to a laser printer and has high-speed Internet access. In addition, access to a wide variety of periodicals is available via the Internet.

## STUDENT EMAIL

Every student enrolled in at least one regular course receives a student email account via the mesalands.net

services. This email account provides students and their instructors a consistent means of communication. Students are required to use their mesalands.net account when corresponding via email with their instructors.

## HEALTH AND WELLNESS CENTER

Mesalands Community College is proud to present its state-of-the-art Health and Wellness Center located in the southwest corner of Building A. The Health and Wellness Center includes a Fitness Center, weight and exercise rooms, and locker rooms with showers. Community members and students may access the Fitness Center 24 hours per day, seven days a week, 365 days a year. The clean and safe facility is continually monitored by video surveillance.

The 2,522 square foot Fitness Center houses a large selection of aerobic training equipment (including treadmills, elliptical cross trainers, recumbent and upright bikes, rowing machines and a stair stepper) numerous Hoist and Freemotion resistant training

machines, a treadwall climbing wall, and an exercise area with wood flooring.

Group exercise courses are held in the 709 square foot specialized exercise room with state-of-the-art rubberized Mondo flooring.



A weight room including barbell and dumbbell free weight equipment with two weight benches, squat rack/power rack and leg press/hack squat is available. Men and women's locker rooms with showers are also located within the Fitness Center. Lockers are available for rental on a semester-by-semester basis.

Health and physical education (HPE) credit courses are offered each semester. Cardio Kickboxing, Pilates-Style Mat Training, Fitness Yoga, Zumba, Body Sculpting, Circuit Training, Weight Training for Women, Fitness for Older Adults, Personal Training Assessment, and Quick Start Fitness are a few of the courses offered.

A facility of this caliber is rarely found in a small community setting. The reasonable monthly membership fee makes joining the Mesalands Community College Fitness Center an ideal way to improve your overall health and well-being.

The College also offers a significantly reduced membership rate for businesses that enroll 5 or more employees for one year.

## **HIGH SCHOOL STUDENTS**

### **DUAL ENROLLMENT**

Mesalands Community College works with a number of area school districts to dually enroll students in high school and college.

Qualified high school students attending these high schools can dually enroll in general education or technical courses for college credit at Mesalands Community College while also earning credit for high school graduation requirements.

## **COMMUNITY EDUCATION**

Mesalands Community College has a consistently successful history of delivering quality service and educational programs to its community. The College considers these programs to be a substantial contribution to the economic development of the area and to the education, future employability, and higher education of the community.

The College currently offers fall and spring semesters of community education for adults, and a Summer Adventure Camp for children. A variety of classes are offered each semester. Instructors with diverse talents, skills, and knowledge are drawn from the community. Classes are developed according to demand. Most community education classes take place in the evening, while the Summer Adventure Camp is held during a

two-week period in June or July. Classes and workshops are also available from the College's Small Business Development Center throughout the year.

The College has conference areas capable of seating between 50 and 400 people. In addition, break-out rooms with an average seating of 35 can accommodate most civic, community, or education groups. Non-profit organizations are not charged for these support services during regular College hours.

## **SUMMER JUMP START PROGRAM**

Mesalands Community College offers a variety of transferable general education courses each summer. Qualifying high school students may enroll in these courses over the summer and earn college credit. Credit will apply to degrees at Mesalands and other colleges and universities, both in and out of the state.

## **DISTANCE LEARNING**

The College provides a variety of distance learning courses. Distance Education allows students to take college courses at their own convenience. Final examinations in all distance learning courses must be proctored per the College's Distance Learning Test Proctoring Procedures. Please contact the Director of Academic Affairs for more information.

Modes of Instruction:

- Internet
- Webcast/Video Delivery
- Digital ITV
- Podcasting-Audio and Video
- Polysynchronous Learning

**Internet** courses are taught using the Internet and Moodle. Courses are similar to in-class courses with assignments or homework, quizzes and exams. Students have more of an opportunity to work within their own time frame. A computer with Internet access is necessary to enroll in these courses.

**Webcast/Video Delivery Courses** are courses delivered through the Internet via an integrated instructional system that generally includes lectures, a textbook, and a variety of other instructional materials. Course materials are picked up from the class facilitator or the Director of Academic Affairs.

**Digital ITV** is a digital interactive television course similar to video conferencing. This two-way video instruction has audio and visual capabilities.

**Podcasting** offers a new and exciting method of taking classes. Students watch professionally produced video lectures on an iPod, personal video player, personal computer, or in the College's computer lab.

# ADMINISTRATIVE AFFAIRS

## COLLEGE BOOKSTORE

The College provides a unique bookstore with a pleasant and relaxing atmosphere for students, faculty, staff, and community convenience. The goal of the Bookstore is to provide necessary and supplementary educational materials needed to enhance learning. Textbooks, school and office supplies, art supplies, farrier tools and sundry items are supplied by the College Bookstore. The College Bookstore also offers clothing and gift items featuring the College logo, as well as refreshments. The Bookstore is open at convenient times to benefit the campus.

## DINOSAUR MUSEUM SHOP

The Museum Shop has a wide array of educational and gift items. The goal of the Museum Shop is to provide scientific educational resources, gifts and souvenirs to visitors of the Mesalands Community College's Dinosaur Museum and Natural Sciences Laboratory. The Museum Shop selection includes scientific books, rocks and fossils, replicas, school supplies, tools, and toys. Clothing and gift items with the Museum logo are also available at the Museum Shop.

## SMALL BUSINESS DEVELOPMENT CENTER

The Small Business Development Center (SBDC) is housed on the campus of Mesalands Community College and provides a source for people in the community to receive assistance in the following areas:

- Business planning, marketing and financing
- International trade - import and export
- Women and minority-owned business programs
- Veterans information programs
- Young entrepreneurs programs

SBDC was created in 1986 and became affiliated with the New Mexico SBDC in 1990. The center serves a four-county area. Its mission statement reads as follows:

The mission of the NMSBDC is to provide quality direct assistance, entrepreneurial education, and resource links for potential and existing small businesses to strengthen the economy of New Mexico.

## DINOSAUR MUSEUM

The creation of Mesalands Community College's Dinosaur Museum and Natural Sciences Laboratory is a strong, emerging facet of the College's goal of providing "quality community service programs responding to the diverse

needs of the region and commitment to educational quality." A significant result of that process has been the forging of a reciprocal partnership between the College and the community which recognizes, owns, and promotes the geographical region's rich heritage as one of the earth's premier deposits of fossilized ancient life.

To that end, a Museum advisory committee was formed in 1997 and, in concert with the College and the Mesalands Community College Foundation, launched a major capital campaign to raise money to build the museum.

In the fall of 1997, the College launched the volunteer group Fossil Friends, whereby members of the community were invited to participate in both the development of the museum and its exhibits and in collecting and cataloguing local fossils.

Mesalands Community College's Dinosaur Museum and Natural Sciences Laboratory opened in the spring of 2000. The facility houses exhibit space, classroom, laboratory, storage, restrooms, a Museum Shop, and offices for instructors. Natural Science degree programs with an emphasis in paleontology and geology are conducted here.

The community has donated considerable time, energy, and material resources for remodeling the facility, and for establishing and improving the collection of fossils and other natural history objects. Individuals have also contributed numerous privately owned fossils, as well as whole fossil collections, to the cause. In 2006, the display area and the collection facilities were significantly improved and expanded with financial assistance from the state.

The Museum provides ideal opportunities for student interns to broaden their education in research, field and lab work, and in all aspects of museum science. Volunteers of all ages, from local schools and the community, take the opportunity to gain unique experiences.

Field research is conducted in the summer within the framework of Mesalands Community College's paleontology classes, which operate in the heart of some of the nation's most important fossil beds. Over the last few years, numerous scientifically important fossils from the Mesozoic Age of the Dinosaurs have been recovered and made available for study.



# EDUCATIONAL REQUIREMENTS

## GENERAL REQUIREMENTS FOR GRADUATION

### EDUCATIONAL PLANS OF STUDY

Only Educational Plans of Study which have been signed by the student and adviser and filed in the Office of Enrollment Management will be honored. A student's plan of study remains valid only as long as the student remains continuously enrolled at Mesalands Community College after signing the Educational Plan of Study (at least one course per fall and spring semesters). In addition, the College does not guarantee that courses needed for completion of a given Educational Plan of Study will be offered beyond three years from the date of signing for associate degree plans, or one year beyond the date of signing for certificate plans.

Official Plans of Study which have been approved by the Curriculum Coordinating Committee and faculty council and filed with the Office of Enrollment Management supercede those in prior catalogs or other College publications.

Transfer students must complete at least 15 credits of any degree or certificate requirements in residence at Mesalands Community College.

### GRADE POINT AVERAGE

To be eligible for graduation, a student must complete all Mesalands Community College courses with a CGPA of 2.00 or better.

### INDEBTEDNESS TO THE COLLEGE

No degree or certificate will be awarded until all student indebtedness to Mesalands Community College has been satisfied. Library and tool inventories must be cleared, and any other obligations to the College must be satisfied. The student should obtain the appropriate sign-off signatures on the "Petition to Graduate Form" supplied by the Office of Enrollment Management.

### MINIMUM REQUIREMENT FOR SUBSEQUENT DEGREES

Students may qualify for more than one Associate of Applied Science (AAS) degree by completing the requirements for the subsequent degree(s) and by

earning at least 15 additional collegiate level credits after receiving the previous degree.

This applies to different degrees, not options within a degree. For example, a student may qualify for degrees in both Farrier Science and Diesel Technology, but cannot earn degrees for both Business Administration-General and Business Administration-Accounting since these are simply options under the Business Administration degree. Students may qualify for more than one certificate within a department by completing the requirements with at least 9 additional credits beyond the requirements for the first certificate.

Students may not qualify for more than one Associate of Arts (AA) degree. The AA degree is a single degree with various options and concentrations designed for students anticipating transfer to a four-year college to complete a bachelor's degree.

### APPLICATION FOR GRADUATION

Students who plan to graduate should submit a completed "Application for Graduation" form to the Office of Enrollment Management prior to the deadline as listed in the institutional calendar. Students should pick up an advisement copy of their transcript, Plan of Study, current schedule, pay graduation fees, and schedule an appointment with their advisor. Graduation fees are identified under the section of this handbook entitled "Fees."

### ACT NATIONAL CAREER READINESS CERTIFICATE (NCRC) TESTING

The NCRC is an industry recognized, portable, evidence-based credential that documents essential skills needed for workplace success and includes assessment of applied mathematics, reading for information, and locating information. Students who plan to graduate with a degree and are enrolled in English 299, are required to take the NCRC testing when it is scheduled that semester.

### GRADUATION WITH HONORS

At commencement ceremonies, students with high cumulative grade point averages who receive Associate degrees will be recognized for Graduating with Honors.

Summa Cum Laude means a student has graduated with a CGPA of 3.80 or higher. Magna Cum Laude means a student has a CGPA of 3.50 to 3.79. Cum Laude means a student has a CGPA of 3.25 to 3.49.

## GENERAL EDUCATION PHILOSOPHY

One of the goals of higher education is to help prepare students with cultural, social, and societal skills which will enable them to participate actively in society. General education courses are intended to introduce students to that body of knowledge which gives meaning and cohesion to society, thus preparing them for life-long learning.

The general education requirements are also intended to prepare the community college student with the academic background and skills to successfully pursue more advanced degrees at colleges and universities and/or to be more successful in a career. To that end, Mesalands Community College has incorporated an institutional core of general education within each degree.

General Education classes solidify the proficiencies and competencies that are essential for all college-educated adults. Offerings include the following:

Art/Music, Communications, Computers, English, History, Philosophy, Foreign Language, Natural and Physical Science, Mathematics, Anthropology, Economics, Sociology, Psychology, Political Science and Religious Studies.

Mesalands Community College recognizes General Education as the foundation for higher education and is committed to its full integration in all of its degree and Applied Science certificate programs.

Mesalands Community College's degree programs are designed to develop competencies in broad areas of general education complemented by a concentration in career and applied science courses. Upon successful completion of any degree at Mesalands Community College, a student should be able to:

Communicate effectively, including:

- present ideas orally according to standard usage
- present ideas in writing
- demonstrate application of information technology

Scientific and mathematical reasoning, including:

- demonstrate mathematical principles
- demonstrate scientific reasoning
- apply scientific methods to the inquiry process

Think critically, including:

- read and analyze complex ideas
- locate, evaluate, and apply research information
- evaluate and present well-reasoned arguments

## PROGRAM OBJECTIVES

All degree and certificate programs of study have identified program objectives. Program objectives measure the competencies that students will possess and demonstrate upon graduation. These program objectives/competencies reflect the knowledge, skills, and professional dispositions valued by workplace employers and other stakeholders.



## GENERAL EDUCATION CORE OFFERINGS FOR THE ASSOCIATE OF ARTS DEGREE\*

COURSE NUMBER	COURSE NAME	CREDITS
COMM 1130	Public Speaking	3
ENGL 1110	Composition I	3
ENGL 1120	Composition II	3
MATH 1220 or MATH 1350	College Algebra or Introduction to Statistics	4
Select Two Courses	Laboratory Science	8
Select Two Courses	Social/Behavioral Science	6
Select One Course	Humanities	3
Select One Course	Creative and Fine Arts	3
	Total Core*	33

\*Refer to degree plans for specific General Education requirements

\*Computer competency assessment required

## GENERAL EDUCATION CORE OFFERINGS FOR THE ASSOCIATE OF APPLIED SCIENCE DEGREE\*

COURSE NUMBER	COURSE NAME	CREDITS
COMM 1130	Public Speaking	3
ENGL 1110	Composition I	3
MATH 101 or higher	Basic Algebra or higher	4
BCIS 1115	Introduction to Computers	4
Select One Course	Laboratory Science	4
Select One Course	Social Science/Humanities/ Creative and Fine Arts	3
	Total Core*	21

\* Refer to degree plans for specific General Education requirements.

\* FYEX 1110 First-Year Seminar (Required for students testing into pre-collegiate courses).

## MESALANDS COMMUNITY COLLEGE CURRICULUM REQUIREMENTS

Degrees and Certificates	Program Length	General Education Credits	Field of Study Credits	Total Credits
Associate of Arts Degree	2 Years or 4 Semesters	33	27-30	63
Associate of Applied Science Degree	2 Years or 4 Semesters	21	39	60
Applied Science Certificate	1 Year or 2 Semesters	9-13	23-31	32-44
Occupational Certificate	1 Semester	0	11-19	11-19

## EDUCATIONAL PROGRAMS

Mesalands Community College is authorized by the New Mexico Higher Education Department to offer programs leading to Associate of Arts and Associate of Applied Science degrees.

The College also offers programming that leads to certificates. The educational goals emphasize preparing students

for transfer to a four-year, degree-granting institution, gainful employment, and to allow them to upgrade their skills and knowledge for career advancement. These goals promote an interest in life-long learning for the student. The following table denotes the degree and/or certificate awarded by each program:

Program	Degree	Certificate
Agri-Business	X	
Allied Health	X	
Nurse's Aide		X
Phlebotomy		X
Animal Science	X	
Artistic Silversmithing		X
Building Trades	X	
Business Administration		
General Business	X	
Business Office Technology		
General Office	X	
Education		
Bilingual	X	
Early Childhood Education	X	
Elementary	X	
Secondary	X	
Farrier Science	X	X
Fine Arts		
New Media/Graphic Design	X	
2-Dimensional	X	
3-Dimensional	X	
Metal Casting		X

Program	Degree	Certificate
General Studies		
Occupational Option	X	
Human Services		
Criminal Justice	X	
Social Work	X	
Liberal Arts		X
Communications	X	
University Studies	X	
Natural Sciences		
Geology	X	
Paleontology	X	
Physical Science		
Pre-Engineering	X	
Pre-Medical Arts		X
Pre-Dentistry	X	
Pre-Medicine	X	
Pre-Veterinary	X	
Pre-Nursing		X
Public Administration		
Law Enforcement	X	
Technical and Professional Writing		X
Wind Energy Technology	X	X





# PLANS OF STUDY: ASSOCIATE OF ARTS

## BUSINESS ADMINISTRATION

The Business Department at Mesalands Community College offers the Associate of Arts Degree with a General Business option. Associate of Arts Degrees are awarded to students who complete the degree plan requirements in our Business Administration programs.

## GENERAL BUSINESS OPTION

The Business Administration program (General Business option) provides the means for students to acquire skills in accounting, business communications, business law, computers, economics, and management. These skills will enable students to enter the business world. This program is designed to provide the first two years of business courses for those students who plan to pursue a four-year degree. Graduates of the Business Administration program are exposed to a variety of disciplines through their course work, and are given the opportunity to improve and enhance their interpersonal, critical thinking and problem solving skills.



## FIRST YEAR

FALL	CREDITS
ACCT 2110 Principles of Accounting I	3
BUSA 1110 Introduction to Business	3
ENGL 1110 Composition I	3
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>15</b>

SPRING	CREDITS
ACCT 2120 Principles of Accounting II	3
BUSA 2110 Business Communications	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
MATH 1220/ College Algebra or	4
MATH 1350 Introduction to Statistics	
Science Requirement	4
<b>CREDITS</b>	<b>17</b>

## SECOND YEAR

FALL	CREDITS
BUS Business Elective	3
COMM 1130 Public Speaking	3
ECON 2110 Macroeconomic Principles	3
Humanities/Fine Arts Requirement	3
MGMT 2110 Principles of Management	3
<b>CREDITS</b>	<b>15</b>

SPRING	CREDITS
BLAW 2110 Business Law I	3
ECON 2120 Microeconomic Principles	3
Science Requirement	4
Social/Behavioral Science Requirement	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 61**

## EDUCATION

The Education options provide a stimulating, challenging forum wherein scholars and practitioners interact in the discovery and mastery of the science and art of educational endeavors. This balanced approach, in which research and practice are viewed as essential and complementary, enables the College to produce superior educators.

## BILINGUAL OPTION

The Bilingual option is an internationally significant field that crosses many disciplines. Students will be provided with opportunities to become teachers and educational leaders who work with children to develop a democratic and pluralistic society.



## FIRST YEAR

<b>FALL</b>		<b>CREDITS</b>
EDUC 1120	Introduction to Education	3
ENGL 1110	Composition I	3
HLED 2230	Observations in Health and Physical Educations	1
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
<b>CREDITS</b>		<b>14</b>
<b>SPRING</b>		<b>CREDITS</b>
COMM 1130	Public Speaking	3
ENGL 1120	Composition II	3
	<i>Prerequisite: ENGL 1110</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
SPAN 1110	Spanish I	3
<b>CREDITS</b>		<b>16</b>

## SECOND YEAR

<b>FALL</b>		<b>CREDITS</b>
ENG	English 200 level elective	3
HPE	HPE Elective	1
	Humanities/Fine Arts Requirement	3
PSYC 2120	Developmental Psychology	3
SPAN 1120	Spanish II	3
	Social/Behavioral Science Requirement	3
<b>CREDITS</b>		<b>16</b>
<b>SPRING</b>		<b>CREDITS</b>
EDUC 1190	Introduction to Education Practicum	3
HIST 2110	Survey of New Mexico History	3
HIST	History Elective	3
MATH 1220/	College Algebra or	4
MATH 1350	Introduction to Statistics	
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>14</b>

**EARLY CHILDHOOD OPTION**

The Early Childhood option provides opportunities for students to bring together subject matter knowledge, appropriate strategies, and interpersonal skills essential to provide successful learning experiences for children. Students will be versed in individualized instruction and sensitive to developmental and sociocultural issues involving the learner.

**FIRST YEAR**

<b>FALL</b>	<b>CREDITS</b>
ECED 1110 Child Growth Development, and Learning	3
ECED 1130 Family and Community Collaboration	3
ENGL 1110 Composition I	3
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>15</b>

<b>SPRING</b>	<b>CREDITS</b>
ECED 1115 Health, Safety, and Nutrition	2
ECED 1120 Guiding Young Children	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
Humanities/Fine Arts Requirement	3
Science Requirement	4
<b>CREDITS</b>	<b>15</b>

**SECOND YEAR**

<b>FALL</b>	<b>CREDITS</b>
ECED 2110 Professionalism	2
ECED 2120 Curriculum Development through Play Birth Through Age 4 (PreK)	3
ECED 2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum	2
ECED 1125 Assessment of Children and Evaluation of Programs	3
Science Requirement	4
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>17</b>

<b>SPRING</b>	<b>CREDITS</b>
COMM 1130 Public Speaking	3
ECED 2115 Introduction to Language, Literacy, and Reading	3
ECED 2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2131 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
MATH 1220/ College Algebra or	4
MATH 1350 Introduction to Statistics or	
MATH 1110 Math for Teachers I	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>15/16</b>

## ELEMENTARY OPTION

The Elementary Education option provides opportunities for students to explore a variety of subjects in the humanities, social sciences and natural sciences. Students also learn appropriate strategies and the interpersonal skills essential to provide successful learning experiences for children in a diverse society.



## FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
EDUC 1120 Introduction Education	3
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>13</b>

<b>SPRING</b>	<b>CREDITS</b>
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
HIST History 101 or History 102	
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>16</b>

## SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
ENG English 200 level elective	3
HIST History 121 or 122	3
HPE HPE Elective	1
MATH 1110 Math for Teachers I	3
PSYC 2120 Developmental Psychology	3
Science Requirement	4
<b>CREDITS</b>	<b>17</b>

<b>SPRING</b>	<b>CREDITS</b>
COMM 1130 Public Speaking	3
EDUC 1190 Introduction to Education Practicum	3
<i>Prerequisite: See Instructor</i>	
HIST 2110 Survey of New Mexico History	3
MATH 101 Basic Algebra	4
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 60**



## SECONDARY OPTION

The Secondary Education option provides students with the opportunity and experience to work with children from a broad range of cultural, ethnic, and economic backgrounds. Students will be prepared for career roles as teachers of science, social sciences, humanities, educational leaders, researchers, media,



and computer specialists.

### FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
ENGL 1110 Composition I	3
HIST HIST 1110 or HIST 1120	3
HLED 2230 Observations in Health and Physical Education	1
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>13</b>

<b>SPRING</b>	<b>CREDITS</b>
EDUC 1120 Introduction to Education	3
ENGL 1120 Composition II	
<i>Prerequisite: ENGL 1110</i>	3
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
Science Requirement	4
<b>CREDITS</b>	<b>16</b>

### SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
ENG English 200 Level Elective	3
HIST HIST 1150 or HIST 1160	3
HPE HPE Elective	1
PSYC 2120 Developmental Psychology	3
Science Elective	4
<b>CREDITS</b>	<b>14</b>

<b>SPRING</b>	<b>CREDITS</b>
COMM 1130 Public Speaking	3
EDUC 1190 Introduction to Education Practicum	
<i>Prerequisite: See Instructor</i>	3
HIST 2110 Survey of New Mexico History	3
HIST History Elective	3
MATH 1220/ College Algebra or	4
MATH 1350 Introduction to Statistics	
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>17</b>

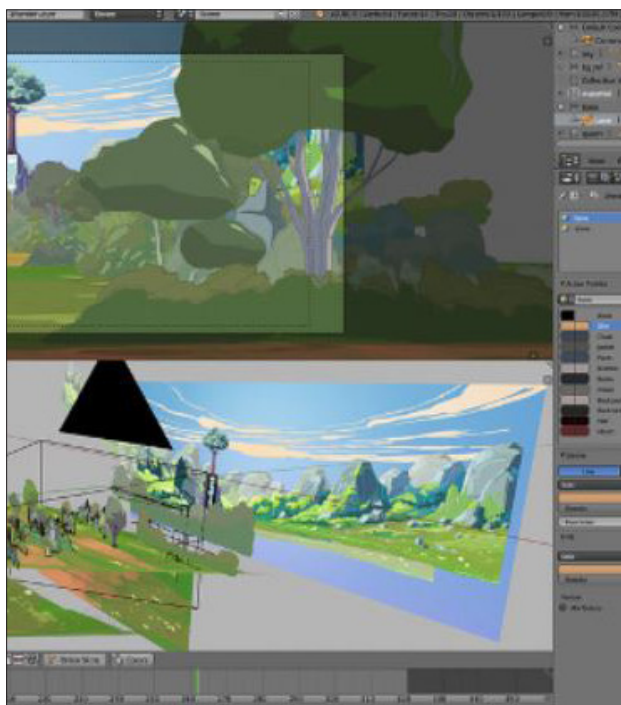
**TOTAL CREDITS 60**

## FINE ARTS

### DIGITAL MEDIA ARTS OPTION

The Digital Media Arts option allows students to explore new media technologies into their art practice. Students have the opportunity for course work in the growing fields of Internet art, game art, digital narrative and animation, comic and illustration, and digital fabrication.

In addition, students will have access to the FabLab and design space that fosters a critical and collaborative art research environment where students investigate media technologies such as 3D -printing, scanning, and CNC fabrication.



## FIRST YEAR

FALL		CREDITS
ARTS 1240	Design I	3
ARTS 1610	Drawing 1	3
ENGL 1110	Composition I	3
MATH 1130	Survey of Mathematics	4
ARTS 1520	Digital Media I	3

**CREDITS 16**

SPRING		CREDITS
_____	ARTS 1530, FDMA 2530, FDMA 1535, FDMA 1515	3
_____	ARTS 2621L, FDMA 2530, ARTS 1616	3
ENGL 1120	Composition II	3
<i>Prerequisite: ENGL 1110</i>		
_____	Science Requirement	4
PSYC 1110	Introduction to Psychology	3

**CREDITS 16**

## SECOND YEAR

FALL		CREDITS
ARTH 2110	History of Art I	3
_____	Science Requirement	4
_____	FDMA 2710, ARTS 1410, ARTS 1541	3
_____	FDMA 1720 or ARTS 1542	3
_____	Social/Behavioral Science Requirement	3

**CREDITS 16**

SPRING		CREDITS
_____	FDMA 2720, FDMA 2532, FDMA 2768	3
COMM 1130	Public Speaking	3
_____	FDMA 2730, FDMA 2534, FDMA 2290	3
ARTS 2010	Portfolio Development	2
ENGL 2999	Capstone Portfolio Course	1

**CREDITS 12**

**TOTAL CREDITS 60**

## DIGITAL MEDIA ARTS TRACK: COMIC ILLUSTRATION AND CHARACTER DESIGN

Illustrators and cartoonists are communicators. Illustrators often use imagery to interpret texts or ideas, while cartoonists use image and text together to tell a story. Students have the opportunity to explore traditional illustration technique including drawing with ink, brush, watercolor, collage, etching and beyond.

We teach the basics of comics, covering the principles of narrative and sequential visual storytelling as we explore writing, panel layout, composition, inking and coloring, and digital application. Students will gain insight into the business of illustration, including where to look for assignments and how to promote (and price) your work, and best to develop a professional portfolio.

## OCCUPATIONAL CERTIFICATE

### ONE SEMESTER

	CREDITS
ARTS 1610 Drawing I	3
ARTS 1616 Drawing Comics & Sequential Art	3
FDMA 1720 3D Character Design	3
_____ ARTH 2110 or ARTH 1141	3
ENGL 1110 Composition I	3

### CREDITS

15





DIGITAL MEDIA ARTS  
TRACK: ANIMATION & GAME ART

Design a career that you will love as a 3-D animator or game artist.

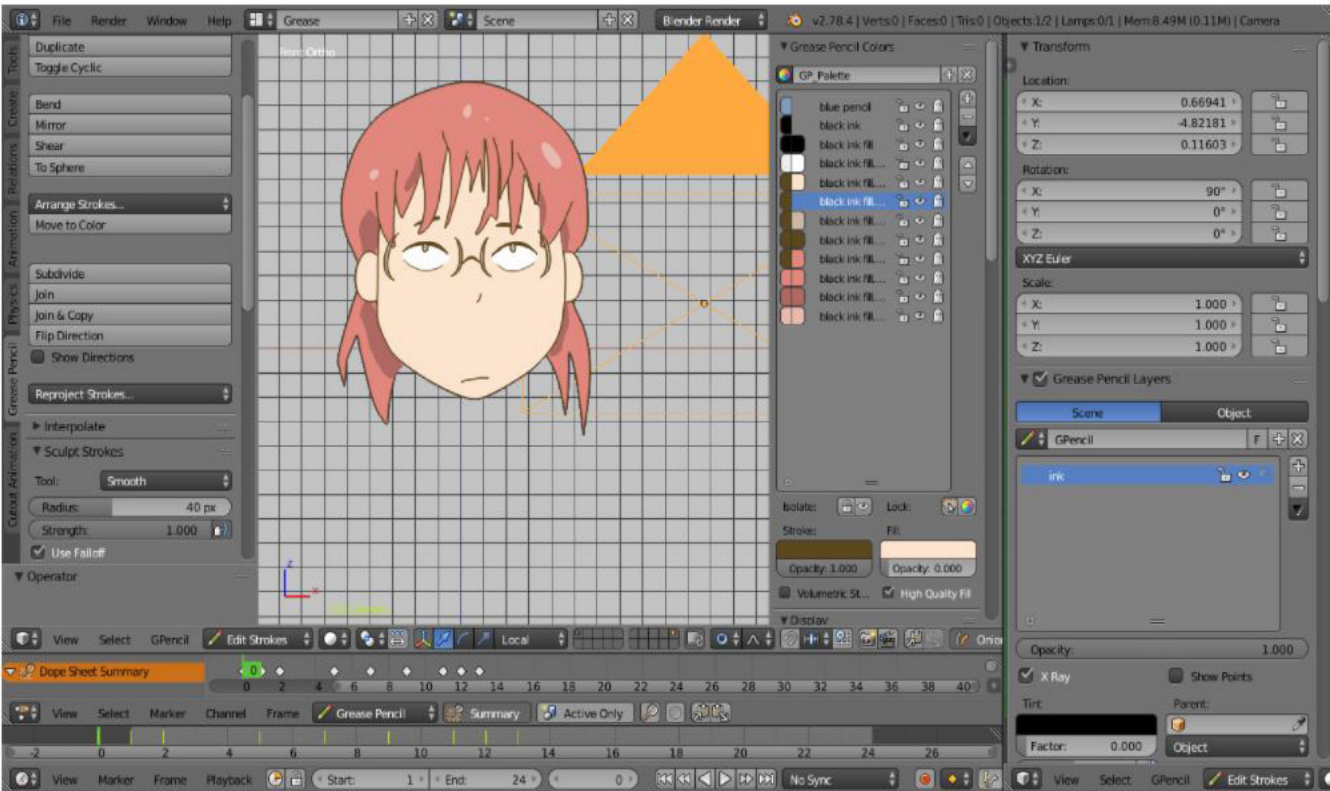
MCC’s Animation and Game Art track provides you with the tools and training you need to take a project from concept to reality, while encouraging your creativity. Learn how to execute 3-D animation and still imagery for advertising, industrial visualization, entertainment and corporate communication in an environment designed to emphasize creative concepts. Coursework explores on 2-D and 3-D art and animation skills for gaming. Learn level design and high-end 3-D graphics integration in a group project environment.

OCCUPATIONAL CERTIFICATE

ONE SEMESTER

	CREDITS
FDMA 2768 Introduction to Game Development	3
ARTS 1520 Digital Media Arts I	3
FDMA 2710 Beginning 2-D Animation	3
ARTS 2621L Drawing for Animation	3
FDMA 2530 Introduction to 3D Modeling	3
MATH 1130 Survey of Mathematics	4

CREDITS 19





## STUDIO ART OPTION

The Fine Arts Program offers foundation level courses in drawing, design, and art appreciation as well as courses focusing on traditional three-dimensional studio disciplines such as bronze casting, ceramics, sculpture, and foundry. We offer a two-year associate of arts (AA) degree with a options in Studio Arts, Digital Media Arts or various certificates such as Studio Art Proficiency, Metal Casting, Animation and Game Design, and Comic and Character Design. (Overall program description) The Studio option offers the student the opportunity to study various studio media. Our spacious labs will provide you with access to professional-quality equipment, including a full metal fabrication shop, woodshop, 3D printers, full printmaking lab, ceramic kilns, electric pottery wheels and the historic metal-casting foundry.

Students have the opportunity to participate in the annual Mesalands Hot Iron Pour, focusing on sand casting processes as well as ceramic shell for metal casting. For non-art majors, the program offers courses that satisfy the degree requirements for other fields of study. Art courses are also open to persons who are interested in art but are not pursuing an academic degree. You'll work with our renowned faculty, all of whom are practicing artists, to discover new materials, concepts, and projects that will help you take your work in unexpected directions.

Our visiting artist program, exposes students to the works of current professional artists and showcases student work in both open and juried student shows. Instruction in the studio processes is done with an emphasis on creativity, craftsmanship, application and understanding of design principle, and safety. Our instructors are nationally-recognized practicing artists who are dedicated to helping you explore, research and practice the visual arts.



## FIRST YEAR

FALL	CREDITS
ARTS 1240 Design I	3
ARTS 1610 Drawing I	3
ENGL 1110 Composition I	3
MATH 1130 Survey of Mathematics	4
ARTS 1520 Digital Media I	3
<b>CREDITS</b>	<b>16</b>

SPRING	CREDITS
ARTS 1320 Design II	3
ARTS 2610, ARTS 1630, ARTS 1616 **Prerequisite: ARTS 1610	3
ENGL 1120 Composition II	3
Prerequisite: ENGL 1110	
Science Requirement	4
PSYC 1110 Introduction to Psychology	3
<b>CREDITS</b>	<b>16</b>

## SECOND YEAR

FALL	CREDITS
ARTH 2110 History of Art I	3
Science Requirement	4
ARTS 2630, ARTS 1710, ARTS 1410	3
ARTS 2850, ARTS 1320, ARTS 2630	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>16</b>

SPRING	CREDITS
ARTS 2615, ARTH 2140, ARTH 2120	3
COMM 1130 Public Speaking	3
ARTS 2310, ARTS 1840, ARTS 1854, ARTS 2996	3
ARTS 2010 Portfolio Development	2
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>12</b>

**TOTAL CREDITS 60**

# STUDIO ART PROFICIENCY

The Certificate in Art Studio Proficiency allows students from across campus, regardless of their major or degree program, to engage in a structured, meaningful art studio experience. This certificate was designed for students who may not have professional ambitions in the arts, but still have an interest in a special discipline and want to develop their talents; previous coursework in art is not required. The program provides a course of study in four focus areas: 2D, 3D, 4D, or photography. Students select one of these tracks and complete the courses required of this area of study. For each option, certificate students complete one course focusing on the historical context of art, one or two courses that provide a foundation for their chosen area, and two related electives that allow for the exploration and development of their skills.

# OCCUPATIONAL CERTIFICATE

		CREDITS
ARTS 1610	Drawing I	3
ARTS _____	ARTS 1630, ARTS 2610, ARTS 1320	3
ARTS _____	ARTS 2615, ARTS 2630, ARTS 2310	3
ARTS _____	ARTS 1840, ARTS 2850, ARTS 2996	3
ARTS 2010	Portfolio Development	2
TOTAL CREDITS		14





# METAL CASTING

Mesalands Community College has one of the largest institutional foundries in the southwest. Students have the opportunity to explore traditional metal casting process or digital casting processes. Students are able to work in various metals such as bronze, aluminum, and cast iron.

Throughout the semester we host opportunities to observe demo pours, partake in workshops, and become involved with our community outreach. Certificate students have the opportunity to participate in the Annual Mesalands Hot Iron Pour, focusing on sand casting processes, as well as ceramic shell for metal casting. The MCC Foundry visits other schools and pours around the country during the year to help other programs and be a presence of the community at large. Our foundry is an arts-education and training facility where professional artists and students are encouraged to engage in all stages of the casting process, we invite you to become a part of our practice.

## OCCUPATIONAL CERTIFICATE

		CREDITS
ARTS 2850	Art Foundry I	3
ARTS 1840	Sculpture I	3
ARTS ____	ARTS 2861 or ARTS 1541	3
ARTS ____	ARTS 2862 or ARTS 1542	3
ARTS ____	ARTS 2996: Iron Pour or FDMA 2532	3
ARTS 2010	Portfolio Development	3
TOTAL CREDITS		18



# HUMAN SERVICES

## CRIMINAL JUSTICE OPTION

The Criminal Justice Program offers an Associate of Arts degree. The field of Criminal Justice offers a career of unending challenge and public service. At no time in this nation's history has there been a greater need for qualified, well-educated and dedicated criminal justice professionals.



## FIRST YEAR

FALL		CREDITS
CJUS 1110	Introduction to Criminal Justice	3
ENGL 1110	Composition I	3
HLED 2230	Observations in Health and Physical Education	1
	Social/Behavioral Science Requirement	3
SPAN 1110	Spanish I	3
<b>CREDITS</b>		<b>13</b>

SPRING		CREDITS
CJUS 2140	Criminal Investigations	3
ENGL 1120	Composition II	3
	<i>Prerequisite: ENGL 1110</i>	
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
SOCI 1110	Introduction to Sociology	3
<b>CREDITS</b>		<b>15</b>

## SECOND YEAR

FALL		CREDITS
COMM 1130	Public Speaking	3
CJUS 1120	Criminal Law	3
	Science Requirement	4
SOCI 2310	Contemporary Social Problems	3
MATH 1220/	College Algebra or	4
MATH 1350	Introduction to Statistics	
<b>CREDITS</b>		<b>17</b>

SPRING		CREDITS
HPE	Elective	1
	Humanities/Fine Arts Requirement	3
PSCI 202	State and Local Government	3
	Science Requirement	4
	Social/Behavioral Science or	3
	Human/Fine Arts Elective	3
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>15</b>

**TOTAL CREDITS 60**



## SOCIAL WORK OPTION

The Social Work Program provides the student with an introduction to the field of social work and the social welfare system, the human behavior content required of human services workers, and social welfare policy analysis skills. The curriculum may serve as a preparatory foundation for those interested in continuing their study at the Bachelor of Social Work level.



### FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Science Requirement	4
Social/Behavioral Science Requirement	3
SPAN 1110 Spanish I	3
<b>CREDITS</b>	<b>14</b>

<b>SPRING</b>	<b>CREDITS</b>
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
Social/ Behavioral Science or Humanities/Fine Arts Elective	3
<b>CREDITS</b>	<b>16</b>

### SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
COMM 1130 Public Speaking	3
MATH 1220/ College Algebra or MATH 1350 Introduction to Statistics	4
SOCI 2310 Contemporary Social Problems	3
SOCI 2240 Sociology of Intimate Relationships and Family	3
SOWK 2110 Introduction to Human Services and Social Work	3
<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>	<b>CREDITS</b>
PSYC 2120 Developmental Psychology	3
HPE HPE Elective	1
PSCI 202 State and Local Government	3
Social/Behavioral Science Requirement	3
HMSV 2998 Internship	3
<i>Prerequisite: SOWK 2110</i>	
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 60**

## LIBERAL ARTS

### COMMUNICATIONS OPTION

The Communications option provides opportunities for students to explore interests and develop proficiencies in general communications, writing, computer use, and publishing software while gaining a background in liberal arts studies. Graduates of the program complete course work that explores a variety of academic disciplines. Students who intend to use the Communications option as a basis for transfer should make certain that their course selection meets the requirements of the applicable degree at the college or university to which they plan to transfer.



## FIRST YEAR

FALL	CREDITS
COMM 2120 Interpersonal Communication	3
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>13</b>

SPRING	CREDITS
COMM 1130 Public Speaking	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
Science Requirement	4
Social/Behavioral Science Requirement	3
Humanities/Fine Arts Requirement	3
<b>CREDITS</b>	<b>16</b>

## SECOND YEAR

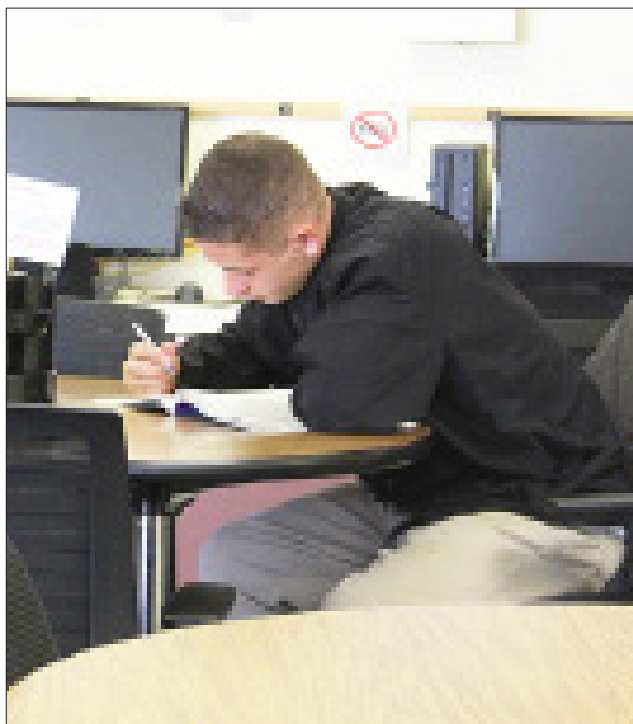
FALL	CREDITS
BUSA 2110 Business Communications	3
BCIS 2230 MS PowerPoint	4
ENGL 2210 Professional and Technical Communication	3
Additional COM -or- ENG Elective	3
Science Requirement	4
<b>CREDITS</b>	<b>17</b>

SPRING	CREDITS
BCIS 2120 Desktop Publishing	4
ENGL 2130 Advanced Composition	3
HPE HPE Elective	1
MATH 1130 Survey of Mathematics	4
Transferable Liberal Arts Elective	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>16</b>

<b>TOTAL CREDITS</b>	<b>62</b>
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## UNIVERSITY STUDIES OPTION

The University Studies option provides opportunities for students to explore studies in areas of student interest while developing proficiencies in the liberal arts and the selected areas of interest. Graduates of the program, however, are strongly encouraged to complete coursework in which the academic disciplines (transferable electives) demonstrate a common area of interest. Students intending to use the University Studies option as a basis for transfer should make certain that their course selection meets the requirements of the applicable degree at the college to which they plan to transfer.



### FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
ENGL 1110 Composition I	3
HPE 127 Introduction to Health and Wellness	1
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
Transferable Liberal Arts Elective	3
<b>CREDITS</b>	<b>13</b>

<b>SPRING</b>	<b>CREDITS</b>
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
Transferable Liberal Arts Requirement	3
<b>CREDITS</b>	<b>16</b>

### SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
COMM 1130 Public Speaking	3
Science Requirement	3
Transferable Liberal Arts Elective	3
Transferable Liberal Arts Elective	3
Transferable Liberal Arts Elective	3
(200 level)	
<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>	<b>CREDITS</b>
HPE HPE Elective	1
MATH 1220/College Algebra or	4
MATH 1350 Introduction to Statistics	
Transferable Liberal Arts Elective	3
Transferable Liberal Arts Elective	3
Transferable Liberal Arts Elective	
(200 level)	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>15</b>

**TOTAL CREDITS 60**

\*Note:

At least two of the transferable liberal arts electives must be at the 200 level

## LIBERAL ARTS CERTIFICATE

The Liberal Arts Certificate program is designed to provide students with the opportunity to explore areas of interest in the liberal arts. Graduates of the program will complete coursework that explores a variety of academic disciplines. Students must choose at least one course from each area of study, for a total of 21-23 credit hours. Students who intend to use the Liberal Arts Certificate option as a basis for transfer should make certain that their course selections meet the requirements of the applicable degree at the college or university to which they plan to transfer.

### CREDITS

#### COMMUNICATIONS

Choose one or more:

ENGL 1110	Composition I	3
ENGL 1120	Composition II	3
ENGL 2210	Professional and Technical Communication	3
COMM 2120	Interpersonal Communication	3
COMM 1130	Public Speaking	3
BCIS 1115	Introduction to Computers	4

#### MATHEMATICS

Choose one or more:

MATH 1220	College Algebra	4
MATH 1230	Trigonometry	3
MATH 1430	Applications of Calculus I	3
MATH 1440	Applications of Calculus II	3
MATH 162	Calculus I	3
MATH 163	Calculus II	3
MATH 1350	Introduction to Statistics	4

#### LABORATORY SCIENCE

Choose one or more:

BIOL 1110C	General Biology Lecture & Laboratory	4
BIOL 2310C	Microbiology Lecture and & Lab	4
CHEM 1216	General Chemistry	4
CHEM 1215C	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225C	General Chemistry II Lecture and Laboratory for STEM Majors	4
GEOL 1122	Introduction to Environmental Science	4
GEOL 1110	Physical Geology	4
GEOL 2110	Historical Geology	4
PHYS 1115C	Survey of Physics with Lab	4
ASTR 1115	Introduction to Astronomy	4

PHYS 1230C	Algebra-based Physics I Lecture + Laboratory	4
PHYS 1240C	Algebra-based Physics II Lecture + Laboratory	4

#### SOCIAL/BEHAVIORAL SCIENCES

Choose one or more:

ANTH 1210	Introduction to Archaeology	3
ANTH 1140	Introduction to Cultural Anthropology	3
CJUS 1110	Introduction to Criminal Justice	3
ECON 2110	Macroeconomic Principles	3
ECON 2120	Microeconomic Principles	3
PSCI 102	American Politics	3
PSCI 202	State and Local Government	3
PSYC 1110	Introduction to Psychology	3
SOCI 1110	Introduction to Sociology	3
SOCI 2310	Contemporary Social Problems	3
SOCI 2240	Sociology of Intimate Relationships and Family	3

#### HUMANITIES AND FINE ARTS

Choose one or more:

ARTH 1110	Art Appreciation	3
ARTH 2110	History of Art I	3
ENG 201	Types of Literature	3
ENGL 1410	Introduction to Literature	3
ENGL 2630	British Literature I	3
ENGL 2550	Introduction to Southwest Literature	3
ENGL 2680	Women's Literature	3
ENGL 2520	Film as Literature	3
HIST 1110	United States History I	3
HIST 1120	United States History II	3
HIST 1150	Western Civilization I	3
HIST 1160	Western Civilization II	3
MUSC 1130	Music Appreciation: Western Music	3
PHIL 2150	Morality and Society	3
PHIL 2230	Philosophical Thought	3
SPAN 1110	Spanish I	3



## PRE-NURSING CERTIFICATE

The pre-nursing certificate enables students to fulfill the transfer requirements to enter two or four-year nursing programs at other institutions. Students take non-nursing academic courses in science, mathematics, and the humanities for possible matriculation into a professional nursing program. The courses taken will allow the student to build a foundation for nursing courses to be completed after transfer to a professional nursing program.



## CERTIFICATE

FALL		CREDITS
FYEX 1110	First-Year Seminar	3
HLSC 1030	Medical Technology	3
NUTR 1110	Nutrition for Health	3
BIOL 211	Human Anatomy and Physiology I	4
MATH 101	Basic Algebra	4
PSYC 2120	Developmental Psychology	3
<b>CREDITS</b>		<b>20</b>

SPRING		CREDITS
COMM 2120	Interpersonal Communications -or-	
COMM 1130	Public Speaking	3
PSYC 1110	Introduction to Psychology	3
ENGL 1110	Composition I	3
BIOL 212	Anatomy and Physiology II	4
BIOL 2310C	Microbiology Lecture & Lab	4
	Elective applicable to future Nursing Program	3
<b>CREDITS</b>		<b>20</b>

<b>TOTAL CREDITS</b>	<b>40</b>
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### Note:

Mesalands Community College does not offer a nursing program, nor does completion of this certificate program guarantee acceptance into any nursing program or qualification for a specific medical occupation. This curriculum does contain some of the more common general education courses required in many nursing programs.

For specific information on requirements for a particular nursing program, students should consult the articulation guide for that program or contact that particular institution. Some substitutions may be authorized if applicable to the nursing program for which the student is seeking admission. Inquire at Office of Enrollment Management for details.

In addition to the above classes, some nursing programs require that the applicant complete a Nurse Aid or Nurse Assistant program prior to acceptance.

## NATURAL SCIENCES

The Natural Sciences program at Mesalands Community College awards an Associate of Arts degree for students completing the degree plan requirements in either the Geology or Paleontology options.

### GEOLOGY OPTION

The Earth has been important to the inhabitants of New Mexico from the beginning: early Native Americans collected chert to make arrowheads, the Spanish mined copper and gold, and Anglo settlers extracted silver and uranium.

The tradition continues. The field of geology continues to be an important component of the economy of New Mexico, from the oil companies of Roswell and Farmington to the copper mines of Silver City, the coal mines of Gallup, the potash mines of Carlsbad, to the hydrogeologists who try to find enough water for the major cities of the state. This program provides a primary education in the natural sciences. Students will be exposed to the fundamentals of geology, biology, and computer science. The geology program emphasizes practical knowledge through field trips and laboratory work. Courses take advantage of the rich natural resources of the mesa country of eastern New Mexico, a state-of-the-art, computer-interactive science laboratory, and the College's natural history museum, the Mesalands Dinosaur Museum.



### FIRST YEAR

FALL	CREDITS
ENGL 1110 Composition I	3
GEOL 1110 Physical Geology	4
Humanities/Fine Arts Requirement	3
PHYS 1115C Survey of Physics with Lab	4
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
GEOL 152 Historical Geology	4
<i>Prerequisite: GEOL 1110</i>	
GEOL 1998 Internship in Geology	2
GEOL GEOL Elective	4
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>16</b>

### SECOND YEAR

FALL	CREDITS
CHEM 1215C General Chemistry I Lecture for STEM Majors	4
COMM 1130 Public Speaking	3
GEOL 1120 Environmental Geology	4
<i>Prerequisite: GEOL 1110</i>	
GEOL 2910 Research in Natural Sciences I	2
Humanities/Fine Arts Requirement	3
<b>CREDITS</b>	<b>16</b>

SPRING	CREDITS
GEOL 2145 History of Life	4
<i>Prerequisite: GEOL 1110 or BIOL 113</i>	
GEOL 2920 Research in Natural Sciences II	2
MATH 1220/College Algebra or	4
MATH 1350 Introduction to Statistics	
Social/Behavioral Science Requirement	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 60**

## PALEONTOLOGY OPTION

Since Ice Age cave dwellers collected ancient sea shells and sharks' teeth, fossils have fascinated us all. The scientific study of fossils is about as old as this country. Fossils are now important sources of information in biology and geology.

New Mexico is blessed with a rich record of fossils. Many types and ages of fossils are present in this state, from dinosaur footprints to mammoth skeletons, and from mighty dinosaur skeletons to sea shells.

This program provides a primary education in the earth and biological sciences with an emphasis on paleontology. Students will be exposed to the fundamentals of geology, biology, and paleontology. The paleontology option emphasizes practical knowledge of fossils through field trips and laboratory work, including week-long summer classes where students can learn about excavating fossil vertebrates. Courses take advantage of the rich natural resources of the mesalands country of eastern New Mexico, a high technology science laboratory, and the College's paleontology museum, the Mesalands Dinosaur Museum.

The Paleontology option emphasizes fossils, particularly their collection, preparation, and study.



## FIRST YEAR

FALL	CREDITS
BIOL 1110C General Biology Lecture & Laboratory	4
ENGL 1110 Composition I	3
GEOL 1110 Physical Geology	4
Humanities/Fine Arts Requirement	3
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
GEOL 152 Historical Geology	4
<i>Prerequisite: GEOL 1110</i>	
GEOL 1998 Internship in Geology	2
Geology or Biology Elective	4
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>16</b>

## SECOND YEAR

FALL	CREDITS
ARTS 1610/Drawing I or	3
ARTS 1840 Sculpture I	
CHEM 1215C General Chemistry I and Laboratory	
for STEM Majors	4
COMM 1130 Public Speaking	3
GEOL 2155 Theory and Praxis of Museum Science	4
GEOL 2910 Research in Natural Sciences I	2
<b>CREDITS</b>	<b>16</b>

SPRING	CREDITS
GEOL 2145 History of Life	4
<i>Prerequisite: GEOL 1110 or BIOL 113</i>	
GEOL 2920 Research in Natural Sciences II	2
MATH 1220/College Algebra or	4
MATH 1350 Introduction to Statistics	
Social/Behavioral Science Requirement	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 60**



# PHYSICAL SCIENCE

## PRE-ENGINEERING OPTION

The physical sciences concentration (pre-engineering) program of the Associate of Arts (A.A) degree is designed for students who plan to pursue further study in physical sciences (Chemistry, Geology, or Physics) and/or Engineering. Graduates of the program will have well-developed critical thinking and problem-solving skills. The coursework in the pre-engineering degree program has a heavy emphasis on mathematics courses (through second semester Calculus) and physical science courses. These courses and laboratory time will prepare students to continue on to a bachelor's degree in physical science and/or an engineering field of their choice.



## FIRST YEAR

FALL	CREDITS
CHEM 1215C General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110 Composition I	3
MATH 1220/College Algebra or	4
MATH 1350 Introduction to Statistics	
PHYS 1115C Survey of Physics with Lab	4
<b>CREDITS</b>	<b>15</b>

SPRING	CREDITS
CHEM 1225C General Chemistry II Lecture and Laboratory for STEM Majors	4
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
MATH 1230 Trigonometry	3
Humanities/Fine Arts Requirement	3
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>16</b>

## SECOND YEAR

FALL	CREDITS
COMM 1130 Public Speaking	3
MATH 162 Calculus I	4
PHYS 1230C Algebra-based Physics I Lecture + Laboratory	4
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
CIS Computer Science elective	3
Humanities/Fine Arts Requirement	3
MATH 163 Calculus II	4
PHYS 1240C Algebra-based Physics II Lecture + Laboratory	4
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>15</b>

**TOTAL CREDITS 60**



## PRE-MEDICAL ARTS

### PRE-DENTISTRY OPTION

The goals of a dentist are to care for and preserve natural teeth and periodontium, provide prosthetics when necessary, and educate people about oral health and hygiene to prevent tooth decay and periodontal disease. This degree program is designed to introduce students to the field of dentistry. The curriculum emphasizes fundamentals of science, math, social behavior and verbal and written communication skills.



## FIRST YEAR

FALL	CREDITS
BIOL 1110C General Biology Lecture & Laboratory	4
COMM 1130 Public Speaking	3
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
CHEM 115 Introduction to Chemistry I	4
Humanities/Fine Arts Requirement	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
MATH 110/College Algebra or	4
MATH 1350 Introduction to Statistics	
<b>CREDITS</b>	<b>14</b>

## SECOND YEAR

FALL	CREDITS
HPE HPE Elective	1
HLSC 1110 Introduction Health Science	3
MATH 1230 Trigonometry	3
PHYS 1115C Survey of Physics with Lab	4
Science Requirement	4
<b>CREDITS</b>	<b>15</b>

SPRING	CREDITS
HLSC 1310 Dental Career Exploration	3
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
Social/Behavioral Science -or- Humanities/Fine Arts Elective	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>18</b>

<b>TOTAL CREDITS</b>	<b>60</b>
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## PRE-MEDICINE OPTION

This program consists of the first two years of course work that will enable students to transfer to a four-year institution for the completion of pre-medicine. The program is offered with concentrations in physics, chemistry, and biology.



## FIRST YEAR

FALL	CREDITS
BIOL 1110C General Biology Lecture & Laboratory 4	
COMM 1130 Public Speaking	3
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
CHEM 115 Introduction to Chemistry I	4
Humanities/Fine Arts Requirement	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
MATH 110/College Algebra or	4
MATH 1350 Introduction to Statistics	
<b>CREDITS</b>	<b>14</b>

## SECOND YEAR

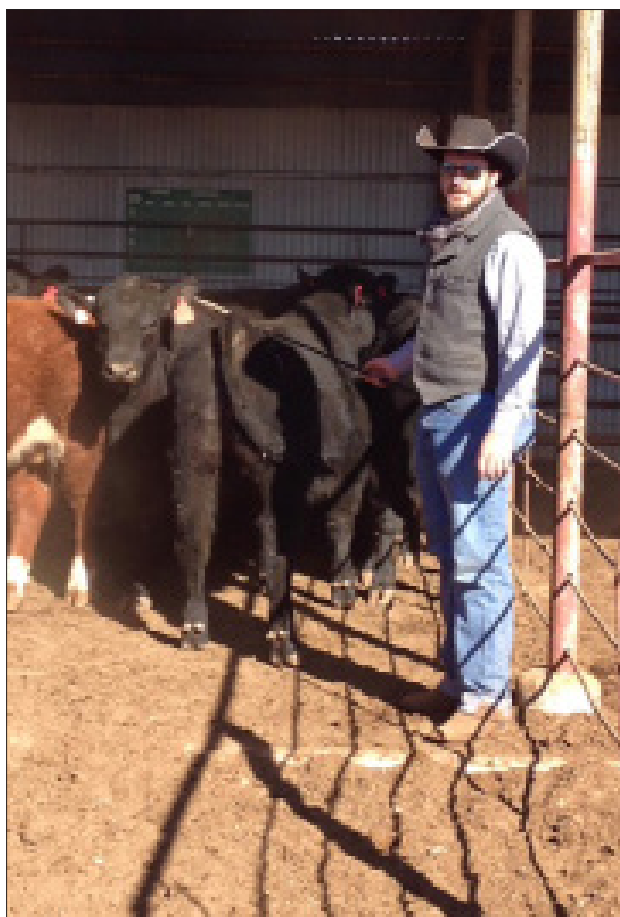
FALL	CREDITS
HLSC 1110 Introduction to Health Science	3
MATH 1230 Trigonometry	3
PHYS 1115C Survey of Physics with Lab	4
Science Requirement	4
<b>CREDITS</b>	<b>14</b>

SPRING	CREDITS
HPE HPE Elective	1
HLSC 1210 Medical Career Exploration	3
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
Social/Behavioral Science Requirement or Humanities/Fine Arts Elective	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>18</b>

**TOTAL CREDITS 60**

## PRE-VETERINARY OPTION

The goals of veterinary medicine are to practice preventive medicine to keep animals in good health, to diagnose and treat sick animals, and to counsel owners, community leaders and the public to maintain the public health. The Pre-veterinary Medicine curriculum follows a curriculum similar to that for pre-medicine. Emphasis is on courses in animal science, comparative vertebrate anatomy, animal physiology, and biochemistry. Hands-on or practical experience in a veterinary clinic is often desirable.



## FIRST YEAR

FALL	CREDITS
BIOL 1110C General Biology Lecture & Laboratory	4
COMM 1130 Public Speaking	3
ENGL 1110 Composition I	3
HLED 2230 Observations in Health and Physical Education	1
Social/Behavioral Science Requirement	3
<b>CREDITS</b>	<b>14</b>
SPRING	CREDITS
ANSC 150 Anatomy and Physiology of Domestic Animals	3
CHEM 115 Introduction to Chemistry I	4
Humanities/Fine Arts Requirement	3
ENGL 1120 Composition II	3
<i>Prerequisite: ENGL 1110</i>	
MATH 110/College Algebra or	4
MATH 1350 Introduction to Statistics	
<b>CREDITS</b>	<b>17</b>

## SECOND YEAR

FALL	CREDITS
HLSC 1110 Introduction to Health Science	3
MATH 1230 Trigonometry	3
PHYS 1115C Survey of Physics with Lab	4
Science Requirement	4
<b>CREDITS</b>	<b>14</b>
SPRING	CREDITS
HPE HPE Elective	1
HLSC 1410 Veterinary Career Exploration	3
Humanities/Fine Arts Requirement	3
Science Requirement	4
Social/Behavioral Science Requirement	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>15</b>
<b>TOTAL CREDITS</b>	<b>60</b>







# PLANS OF STUDY: ASSOCIATE OF APPLIED SCIENCE DEGREES AND CERTIFICATES

## AGRI-BUSINESS

Agri-Business is a major part of the United States economy. The Agri-Business field involves those businesses and professions involved in producing, processing, marketing, and distributing goods and/or services related to agriculture. Businesses from farming and ranching to banking and marketing are part of Agri-Business.

The Agri-Business Associate of Applied Science degree combines business courses with animal science and general education courses. The Agri-Business degree at Mesalands is designed to prepare students for transfer to a four-year college or university. Students may also gain entry-level employment upon completion of the degree.



## FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
ACCT 2110 Principles of Accounting	3
ANSC 1120 Introduction to Animal Science	3
BCIS 1115 Introduction to Computers	4
ENGL 1110 Composition I	3
BFIN 2140 Personal Finance	3
<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>	<b>CREDITS</b>
BUSA 1110 Introduction to Business	3
BCIS 2217/ MS Excel or	4
BCIS 2220 MS Word	
COMM 1130 Public Speaking	3
Science Requirement	4
<b>CREDITS</b>	<b>14</b>

## SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
AEEC 1110/Introduction to Agricultural Economics and Business or	3
ECON 2120 Microeconomic Principles	
BLAW 2110 Business Law I	3
MATH 101 Basic Algebra or Higher	4
MGMT 2110 Principles of Management	3
AGRO 1110C Introduction to Plant Science	3
<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>	<b>CREDITS</b>
MKTG 2210 Agriculture Marketing or	3
MKTG 2110 Principles of Marketing	
ANSC Animal Science Elective	3
BUSA 2110 Business Communications	3
HLED 2230 Observations in Health and Physical Education	1
Social/Behavioral Science or Humanities/Fine Arts Requirement	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

## ALLIED HEALTH SCIENCES

The Allied Health program at Mesalands Community will prepare students for a career in healthcare. The Applied Health Program offers an Associate of Applied Science (AAS) degree in Allied Health, as well as certificates in Nursing Assistant and Phlebotomy.



### FIRST YEAR

<b>FALL</b>	<b>CREDITS</b>
HLSC 1110 Introduction to Health Science	3
HLSC 1030 Medical Technology	3
AHS 125 Nurses Aide	5
AHS 218 BLS for Healthcare Providers	1
BCIS 1115 Introduction to Computers	4
<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>	<b>CREDITS</b>
NUTR 1110 Nutrition for Health	3
COMM 2120 Interpersonal Communications	3
COMM 1130 Public Speaking	3
ENGL 1110 Composition I	3
MATH 1130 Survey of Mathematics	4
PSYC 1110 Introduction to Psychology	3
<b>CREDITS</b>	<b>16</b>

### SECOND YEAR

<b>FALL</b>	<b>CREDITS</b>
BIOL 211 Human Anatomy and Physiology I	4
CHEM 1215C General Chemistry I Lecture and Laboratory for STEM Majors	4
PSYC 2120 Developmental Psychology	3
Social/Behavioral Science or Human/Fine Arts Requirement	3
<b>CREDITS</b>	<b>14</b>

<b>SPRING</b>	<b>CREDITS</b>
AHS Elective	3
BIOL 212 Human Anatomy and Physiology II	4
BIOL 2310C Microbiology Lecture & Lab	4
HLED 2230 Observations in Health and Physical Education	1
HPE HPE Elective	1
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 60**

## NURSE'S AIDE CERTIFICATE

This program prepares students to enter the nursing profession as an entry-level nursing assistant. Upon successful completion of this certificate, the student will meet all federal certification standards for a nursing assistant and be prepared to sit for the New Mexico Nurse's Aide Registry exam.

Prospective students who have been convicted of a felony are advised to contact the appropriate state board of nursing prior to admission to determine their eligibility for licensure. Fingerprinting for background checks, drug testing, and proof of recommended vaccinations are required for the Nurse Aide class. All students must meet the state requirements for each assigned clinical site to qualify for placement.

### FIRST YEAR

#### FALL

		CREDITS
AHS 218	BLS for Healthcare Providers	1
AHS 125	Nurse Aide	5
	<b>Total Credits</b>	<b>6</b>

\*Note:

The following course is a pre-requisite and/or corequisite:

HLSC 1030 Medical Technology (3 credits)

## PHLEBOTOMY CERTIFICATE

This program is designed to provide students with the necessary skills for gainful employment as a phlebotomist. Working under the supervision of a clinical laboratory supervisor, the phlebotomist is responsible for the proper collection, processing and testing of blood specimens and various other medical samples in accordance with OSHA safety regulations and standards. Upon successful completion of this program, the student will be eligible for the application to the national licensing examination through the American Society for Clinical Pathology (ASCP).

### FIRST YEAR

#### FALL

		CREDITS
AHS 218	BLS for Healthcare Providers	1
PHLB 113	Introduction to Phlebotomy*	3
PHLB 115L	Clinical Phlebotomy I	3
PHLB 116L	Clinical Phlebotomy II	3
PHLB 117L	Special Practices in Phlebotomy	3
	<b>TOTAL CREDITS</b>	<b>13</b>

\*Note:

The following courses are pre-requisites: and/or corequisites:

HLSC 1110 Introduction to Health Science (3 credits)

HLSC 1030 Medical Technology (3 credits)



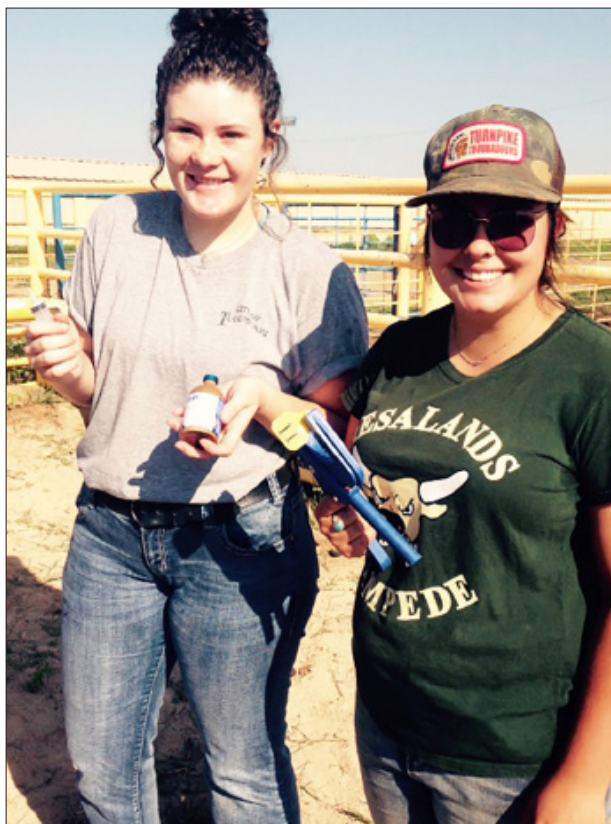


## ANIMAL SCIENCE

A variety of careers are available in the field of Animal Science. From feed sales and nutritionist to buyer, handler and manager, the field of Animal Science offers a variety of career options.

The Animal Science program at Mesalands Community College focuses on the management, biology and health of production livestock animals. The combination of courses in this degree provides a comprehensive educational experience that covers the anatomy and physiology, nutrition, food production and management of all major livestock species that benefit mankind. Students will gain classroom instruction as well as hands-on experience from local ranchers, farmers and other livestock producers.

An associate degree in Animal Science at Mesalands Community College can be transferred to a four-year institution, or it can also be used to gain internships and careers in many fields. Students may also choose to take the knowledge and experience gained back to family ranching or farming operation.



## FIRST YEAR

FALL	CREDITS
ANSC 1120 Introduction to Animal Science	3
ENGL 1110 Composition I	3
FASC 1210L Horseshoeing Laboratory I	3
RGSC 2110 Introduction to Rangeland Management	3
<b>CREDITS</b>	<b>12</b>

SPRING	CREDITS
MKTG 2210 Agriculture Marketing	3
ANSC 150 Anatomy and Physiology of Domestic Animals	3
ANSC 2320 Principles of Animal Nutrition	3
BCIS 1115 Introduction to Computers	4
MATH 101 Basic Algebra or higher	4
TSC 100 Welding I	1
<b>CREDITS</b>	<b>18</b>

## SECOND YEAR

FALL	CREDITS
ART Silversmithing Elective	4
ANSC 230 Animal Health and Diseases	3
ANSC 2330 Animal Production	3
Social/Behavioral Science -or- Humanities/Fine Arts Requirement	3
Science Requirement	4
<b>CREDITS</b>	<b>17</b>

SPRING	CREDITS
ANSC 1110 Internship in Animal Science	3
ANSC 2310 Introduction to Meat Science	4
COMM 1130 Public Speaking	3
Elective (ABM, ART, or FAS)	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>14</b>

**TOTAL CREDITS 61**



## ARTISTIC SILVERSMITHING CERTIFICATE

The Artistic Silversmithing Certificate program is designed to enable students in the acquisition of skills necessary for self-employment or employment with a major manufacturer in the field of traditional western culture arts. Western culture arts include custom designing, fabricating, and the engraving of bits, spurs, various buckles, bracelets and pendants worn and used in traditional western culture.



## APPLIED SCIENCE CERTIFICATE

FALL		CREDITS
ARTS 1861	Spurmaking I I	3
ARTH 1110	Art Appreciation	3
ARTS 1864	Artistic Silversmithing	3
ARTS 1865	Artistic Silversmithing- Bit & Spur Making	3
ARTS 1810	Jewelry and Small Metal Construction I	3
ARTS 2866	Artistic Silversmithing-Engraving	3
TSC 100	Welding I	1
<b>CREDITS</b>		<b>19</b>

SPRING		CREDITS
General Education Requirement		3
ART 262	Advanced Bit Design	3
ART 263	Advanced Jewelry Fabrication	3
ART 264	Advanced Engraving Techniques	3
ARTS 2885	Studio	3
ARTS 2996	Topics in Art Studio	3
<b>CREDITS</b>		<b>18</b>

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<b>TOTAL CREDITS</b>	<b>37</b>
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## OCCUPATIONAL CERTIFICATE

		CREDITS
ARTS 1860	Beginning Spur Making	4
ARTS 1870	Engraving	3
ARTS 1867	Bit Making	4
ARTS 1810	Jewelry and Small Metal Construction I	3
TSC 100	Welding I	1
<b>TOTAL CREDITS</b>		<b>16</b>

## BUILDING TRADES

The Building Trades program provides a broad education towards entry-level employment opportunities in the construction field. First year courses concentrate on basic techniques including carpentry, construction safety, blueprint reading, and job site etiquette. Second year courses build on this foundation, including interior and exterior finishing, Computer Aided Design (CAD) and project management.

The National Center for Construction Education and Research (NCCER) issues nationally recognized certificates of achievement to all students completing the competency-based training and performance testing.



## FIRST YEAR

<b>FALL</b>		<b>CREDITS</b>
BT 105	Introduction to Building Trades and Safety	3
BT 111	Construction Technology I	3
COMM 1130	Public Speaking	3
MATH 1130	Survey of Mathematics	4
<b>CREDITS</b>		<b>13</b>

<b>SPRING</b>		<b>CREDITS</b>
BT 112	Construction Technology II	3
BT 116	Blueprint Interpretation	3
BT 201	Exterior Finishing	4
ENGL 1110	Composition I	3
	Social/Behavioral Science Requirement	3
<b>CREDITS</b>		<b>16</b>

## SECOND YEAR

<b>FALL</b>		<b>CREDITS</b>
ACCT 2110	Principles of Accounting	3
BT 121	Construction Technology III	3
BT 122	Interior Finishing	3
BT 250	Computer Aided Design	4
BCIS 1115	Introduction to Computers	4
<b>CREDITS</b>		<b>17</b>

<b>SPRING</b>		<b>CREDITS</b>
BT 190	Internship in Building Trades	2
BT 202	Construction Technology IV	4
BT 260	Project Management	4
	Science Requirement	4
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>15</b>

<b>TOTAL CREDITS</b>	<b>61</b>
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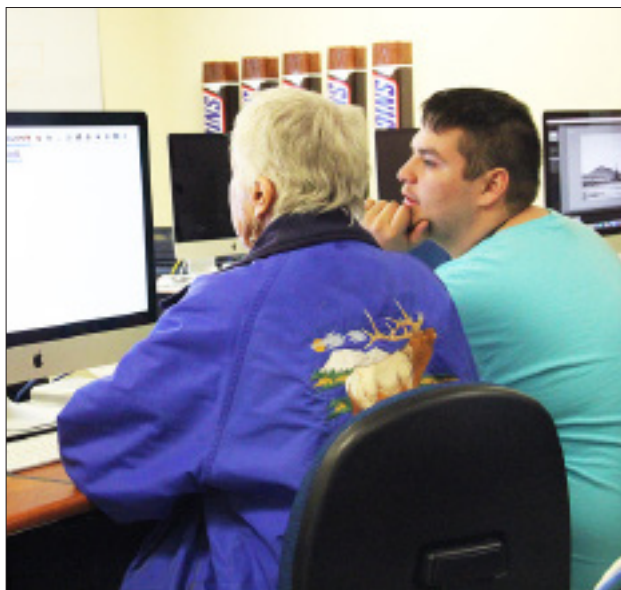
## BUSINESS

The Business Department at Mesalands Community College offers students a wide range of programs toward an Associate degree. Associate of Applied Science degrees are awarded to students who complete the degree plan requirements in the Business Administration and Business Office Technology programs.

### BUSINESS ADMINISTRATION

#### GENERAL OPTION

The Business Administration program provides the means for students to acquire skills in accounting, business communications, business law, computers, economics, and management. These skills will enable students to enter the business world. This program is designed to provide the first two years of business courses for those students who plan to pursue a four-year degree. Graduates of the Business Administration program are exposed to a variety of disciplines and are given the opportunity to improve and enhance their interpersonal, critical thinking, and problem-solving skills.



## FIRST YEAR

### FALL

	CREDITS
ACCT 2110 Principles of Accounting I	3
BUSA 1110 Introduction to Business	3
BUSA 1180 Business Math	3
BCIS 1115 Introduction to Computers	4
ENGL 1110 Composition I	3
<b>CREDITS</b>	<b>16</b>

### SPRING

	CREDITS
ACCT 2120 Principles of Accounting II	3
<i>Prerequisite: ACCT 2110</i>	
BLAW 221 Business Communications	3
MATH 1130 Survey of Mathematics	4
Science Requirement	4
Social/Behavioral Science or	3
Humanities/Fine Arts Requirement	3
<b>CREDITS</b>	<b>17</b>

## SECOND YEAR

### FALL

	CREDITS
BUS Business Elective	3
BUS Business Elective	3
COMM 1130 Public Speaking	3
ECON 2110/ Macroeconomic Principles -or-	3
ECON 2120 Microeconomic Principles	
MGMT 2110 Principles of Management	3
<b>CREDITS</b>	<b>15</b>

### SPRING

	CREDITS
BLAW 2110 Business LawI	3
BUS Business Elective	3
BUS Business Elective	3
MGT 253 Business Policy	3
ENGL 2999 Capstone Portfolio Course	1
<b>CREDITS</b>	<b>13</b>

### TOTAL CREDITS

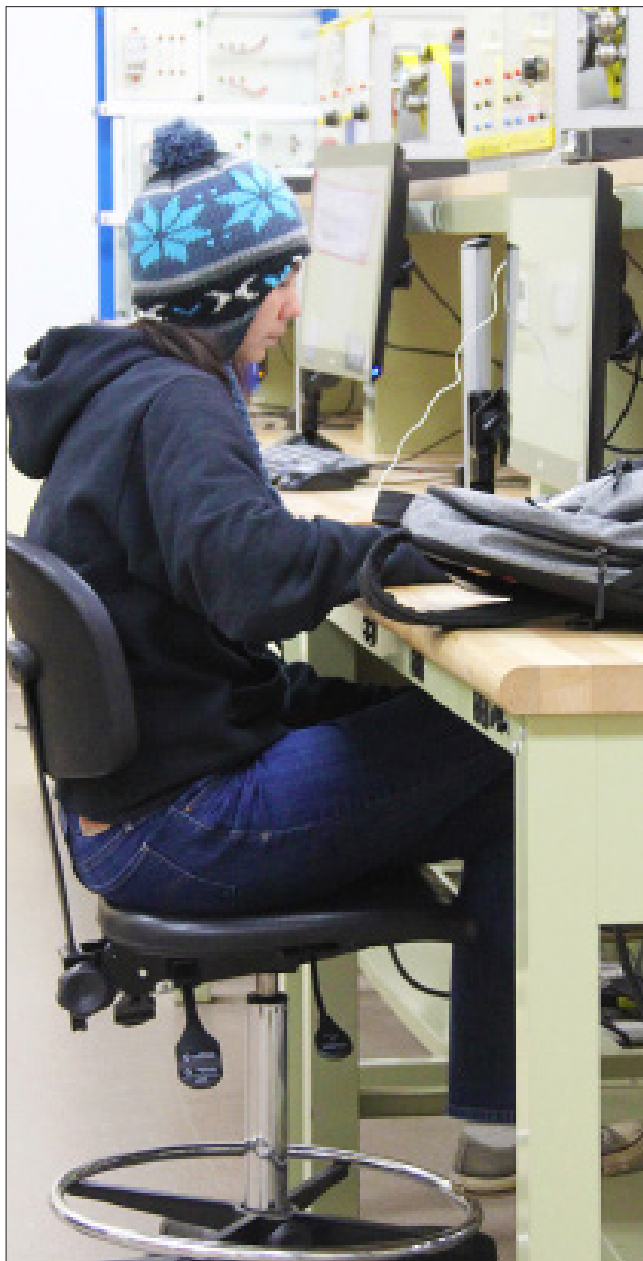
**61**

\*Note:

MATH 101 may not meet degree requirements at some colleges.

## BUSINESS OFFICE TECHNOLOGY

Advances in technology have increased the need for highly-skilled office employees who have the necessary training and confidence required to work with computer hardware, software, and office equipment. The Business Office Technology program has two options: General Office and Software Applications Specialist.



## GENERAL OFFICE OPTION

### FIRST YEAR

<b>FALL</b>		<b>CREDITS</b>
ACCT 2110	Principles of Accounting I	3
BUSA 1110	Introduction to Business	3
BUSA 1180	Business Math	3
BCIS 1115	Introduction to Computers	4
ENGL 1110	Composition I	3
	<b>CREDITS</b>	<b>16</b>

<b>SPRING</b>		<b>CREDITS</b>
BUSA 1210	Records Management	3
BUSA 2110	Business Communications	3
CIS 161	Intermediate Computing	4
MATH 1130	Survey of Mathematics	4
	<b>CREDITS</b>	<b>14</b>

### SECOND YEAR

<b>FALL</b>		<b>CREDITS</b>
BUSA 1310	Office Procedures	3
BCIS 2220	MS Word	4
BCIS 2150	Advanced Computing	4
COMM 1130	Public Speaking	3
HPE	HPE Elective	1
	<b>CREDITS</b>	<b>15</b>

<b>SPRING</b>		<b>CREDITS</b>
BUS	BUS Elective	3
CIS 202	Advanced Word Processing	4
	Science Requirement	4
	Social/Behavioral Science or	3
	Human/Fine Arts Requirement	
ENGL 2999	Capstone Portfolio Course	1
	<b>CREDITS</b>	<b>15</b>

**TOTAL CREDITS 60**



## FARRIER SCIENCE

The Farrier Science program at Mesalands Community College offers an Associate of Applied Science degree as well as an Occupational Certificate.

Farrier Science is primarily a self-employed field; therefore, farriers must be knowledgeable and skilled in all facets of the business. The Farrier Science degree program offers hands-on practical experience in horsemanship, trimming and shoeing, and forging and welding. Instruction in anatomy and physiology, business management, and other aspects of horseshoeing are provided in the classroom.

The degree program also offers an in-depth study of therapeutic and pathological shoeing, including the physiology, forging and application of shoes.



### FIRST YEAR

FALL		CREDITS
ANSC 1510	Equine Anatomy	3
BCIS 1115	Introduction to Computers	4
ENGL 1110	Composition I	3
FASC 1110	Horseshoeing Theory I	3
FASC 1210L	Horseshoeing Laboratory I	3
FASC 1310L	Blacksmithing I	3
<b>CREDITS</b>		<b>19</b>

SPRING		CREDITS
FASC 1120	Horseshoeing Theory II <i>Prerequisite FASC 1110</i>	3
FASC 1220L	Horseshoeing Laboratory II <i>Prerequisite FASC 1210L</i>	3
FASC 1320L	Blacksmithing II <i>Prerequisite FASC 1310L</i>	3
MATH 1130	Survey of Mathematics	4
	Social Behavioral Science or Humanities/Fine Arts Requirement	3
<b>CREDITS</b>		<b>16</b>

### SECOND YEAR

FALL		CREDITS
COMM 1130	Public Speaking	3
FASC 2230L	Farrier Science Therapeutics <i>Prerequisite FASC 1210L</i>	3
FASC 2530	Lameness Physiology <i>Prerequisite: ANSC 1510</i>	3
	Science Requirement	4
<b>CREDITS</b>		<b>13</b>

SPRING		CREDITS
ANSC 2320	Principles of Animal Nutrition	3
FASC 2999L	Farrier Science Capstone Course <i>Prerequisite: FASC 1220L</i>	4
FASC 2330L	Farrier Craftsmanship Therapeutics <i>Prerequisite FASC 1310L</i>	3
FASC 2997	Independent Study in Farrier Science	2
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>13</b>

**TOTAL CREDITS 61**

## FARRIER SCIENCE CERTIFICATE

The Farrier Science Certificate is designed to give students hands-on experience in horseshoeing and blacksmithing as well as familiarize students with the principles and theories of trimming and balancing horses according to their conformation and use. The certificate program is comparable to those offered in private horseshoeing schools. Students spend class time trimming and shoeing horses, forging tools and specialty (corrective) horseshoes and studying horse-shoeing. Students also receive instruction in anatomy and physiology, entrepreneurial business and welding. Students who wish to gain advanced knowledge in Farrier Science should consider the College's degree program.

## FIRST YEAR

### FALL

ABM 162	Entrepreneurial Business	3
ANSC 1510	Equine Anatomy	3
FASC 1110	Horseshoeing Theory I	3
FASC 1210L	Horseshoeing Laboratory I	3
FASC 1310L	Blacksmithing I	3
FASC 1710L	Speciality Horeshoeing or	3
FASC 1998	Internship in Farrier Science I	
TSC 100	Welding I	1

### CREDITS

### CREDITS

19



## GENERAL STUDIES

### OCCUPATIONAL OPTION

The experiential learning program allows students to apply work experience and training toward an Associate of Applied Science degree. It is a way for students to earn course credits at Mesalands for completed on-the-job training and courses where certificates are given. Obvious programs that may qualify for experiential learning credits are in certificate programs, Diesel Technology, Farrier Science and other similar areas of study. Experiential learning allows the student to improve upon their certificate and obtain an Applied Science degree.

Students who have had applicable training, previous vocational, or military experience may petition for college credit by submitting an Experiential Learning Portfolio. Up to 18 college credits may be awarded toward the Associate of Applied Science Degree in General Studies. Credit is awarded only if appropriate experiential learning has occurred and is documented in the Experiential Learning Portfolio Handbook.



## FIRST YEAR

FALL		CREDITS
ENGL 1110	Composition I	3
ENGL 2994	Experiential Learning Portfolio	3
	Social/Behavioral Science or	3
	Human/Fine Arts Requirement	
	Credit for Experiential Learning*	3
<b>CREDITS</b>		<b>12</b>

SPRING		CREDITS
ENGL 1120	Composition II	3
	<i>Prerequisite: ENGL 1110</i>	
MATH 1130	Survey of Mathematics	4
	Science Requirement	4
	Credit for Experiential Learning*	3
	Field of Study Requirement	3
<b>CREDITS</b>		<b>17</b>

## SECOND YEAR

FALL		CREDITS
BCIS 1115	Introduction to Computers	4
COMM 1130	Public Speaking	3
	Social/Behavioral Science or	3
	Human/Fine Arts Requirement	
	Credit for Experiential Learning*	3
	Field of Study Requirement	3
<b>CREDITS</b>		<b>16</b>

SPRING		CREDITS
	Credit for Experiential Learning*	3
	Credit for Experiential Learning*	3
	Credit for Experiential Learning*	3
	Field of Study Requirement	3
	(200 Level)	
	Field of Study Requirement	3
	(200 Level)	
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>16</b>

**TOTAL CREDITS** **61**

\*Note:

Credit for Experiential Learning or Additional Courses from Field of Study.

# PUBLIC ADMINISTRATION

## LAW ENFORCEMENT OPTION

(New Mexico Corrections Department Training Academy)

The Law Enforcement Option offers an Associate of Applied Science degree. The field of study offers the student an inside look at the functions of law enforcement, how evidence is gathered and analyzed, and how suspects are identified, apprehended, and prosecuted. Careers in the various professions associated with Law Enforcement offer unique and exciting challenges.

Police Academy Transfer Credits: Up to 30 credits

Upon documentation of completion of the New Mexico Police Academy, students pursuing the AAS Degree in Public Administration (Law Enforcement) may receive 30 credits toward the completion of this degree. This transfer credit will only be awarded and applied to the student's transcript when all other course requirements for the degree have been met.

## FIRST YEAR

FALL		CREDITS
BCIS 1115	Introduction to Computers	4
ENGL 1110	Composition I	3
PSCI 102/	American Politics or	3
PSCI 202	State and Local Government	
SPAN 1110	Spanish I	3
	<b>CREDITS</b>	<b>13</b>

SPRING		CREDITS
CJUS 1120	Criminal Law	3
MATH 1130	Survey of Mathematics	4
	Science Requirement	4
	Social/Behavioral Science or	3
	Humanities/Fine Arts Requirement	
	<b>CREDITS</b>	<b>14</b>

SUMMER		CREDITS
COMM 1130	Public Speaking	3
ENGL 2999	Capstone Portfolio Course	1
	<b>CREDITS</b>	<b>4</b>

**POLICE ACADEMY  
TRANSFER CREDITS 30**

**TOTAL CREDITS 61**





# TECHNICAL AND PROFESSIONAL WRITING

The Technical and Professional Writing Occupational Certificate program provides students with a selection of courses designed to enhance professional opportunities in a variety of communication fields. The program is intended to develop written, verbal, and digital communication skills to advance students in their fields of study. Taken alone, the Certificate serves as a basis for entry-level positions in administrative or communication industries. Students will participate in a capstone project to create a deliverable product which illustrates their technical and professional communication skills.

# OCCUPATIONAL CERTIFICATE

CREDITS		
ENGL 1110	Composition I	3
ENGL 1120	Composition II	3
	<i>Prerequisite: ENGL 1110</i>	
ENG 168	Portfolio Design	3
ENGL 2210	Professional and Technical Communication	3
ENGL 2993	Writing Workshop: Grant Writing	3
ENGL 2996	Topics in English: Capstone Elective	3
TOTAL CREDITS		21



# WIND ENERGY TECHNOLOGY

The Wind Energy Technology program at Mesalands Community College offers training to meet the growing demand for qualified wind energy technicians to provide maintenance on wind turbines. The Associate of Applied Science Degree in Wind Energy Technology at Mesalands Community College provides instruction in wind turbine technology, turbine placement and construction, turbine operations and maintenance, monitoring and communications technology, tower safety mechanical systems, electrical theory, power generation and distribution, hydraulics, and digital electronics. Students in these programs will be prepared for rewarding and profitable careers in this growing field.



## FIRST YEAR

FALL		CREDITS
AHS 118	Adult CPR/First Aid	.5
PHED 1460	Conditioning: Individual Health and Conditioning	3
WET 101	Introduction to Wind Energy	3
RNBL 1060	Electrical Theory for Renewable Energy	4
RNBL 1150	Field Safety and Experience	3
WET 120	OSHA 10	1
RNBL 1400	Wind Turbine Climbing and Safety I	1
<b>CREDITS</b>		<b>15.5</b>

SPRING		CREDITS
BCIS 1115	Introduction to Computers	4
GEOL 1122	Introduction to Environmental Science	4
RNBL 1210	Wind Turbine Mechanical Systems <i>Prerequisite: WET 101, RNBL 1060, RNBL 1150, RNBL 1400</i>	3
RNBL 1410	Wind Turbine Climbing and Safety II	1
RNBL 2040	Introduction to Hydraulics <i>Prerequisite: RNBL 1150</i>	3
<b>CREDITS</b>		<b>15</b>

## SECOND YEAR

FALL		CREDITS
ENGL 1110	Composition I	3
MATH 1130	Survey of Mathematics	4
RNBL 1160	Introduction to Motors and Generators <i>Prerequisite: WET 101, RNBL 1060, and RNBL 1150</i>	3
WET 219	Wind Turbine Operation, Maintenance and Repair <i>Prerequisites: RNBL 1060, RNBL 1210, and RNBL 2040</i>	4
WET 240	Wind Turbine Climbing and Safety III	1
<b>CREDITS</b>		<b>15</b>

SPRING		CREDITS
COMM 1130	Public Speaking	3
ENGL 2210	Professional and Technical Communication	3
WET 217	Wind Turbine Siting, Erection, Generation, and Distribution <i>Prerequisite: RNBL 1160</i>	3
RNBL 2180	Wind Turbine Electronics <i>Prerequisite: RNBL 1060, RNBL 1160, and WET 219</i>	4
WET 241	Wind Turbine Climbing and Safety IV	1
ENGL 2999	Capstone Portfolio Course	1
<b>CREDITS</b>		<b>15</b>

**TOTAL CREDITS 60.5**

# WIND ENERGY TECHNOLOGY CERTIFICATE

The Wind Energy Technology Certificate program is designed to give students a selection of courses to enhance professional opportunities in the growing field of wind energy. The Wind Energy Technology Certificate provides instruction in turbine maintenance, electrical theory, monitoring and communications technology, safety, motors, generators, and mechanical systems. Students who complete these courses will be prepared to ease the shortage of trained wind energy technicians.



## APPLIED SCIENCE CERTIFICATE

FALL		CREDITS
AHS 118	Adult CPR/First Aid	.5
WET 101	Introduction to Wind Energy	3
RNBL 1060	Electrical Theory for Renewable Energy	4
RNBL 1150	Field Safety and Experience	3
WET 120	OSHA 10	1
RNBL 1400	Wind Turbine Climbing and Safety I	1
<b>CREDITS</b>		<b>12.5</b>

SPRING		CREDITS
BCIS 1115	Introduction to Computers	4
ENGL 1110	Composition I	3
GEOL 1122	Introduction to Environmental Science	4
RNBL 1210	Wind Turbine Mechanical Systems <i>Prerequisite: WET 101, RNBL 1060, RNBL 1150, and RNBL 1400</i>	3
RNBL 1410	Wind Turbine Climbing and Safety II <i>Prerequisite: RNBL 1400</i>	1
RNBL 2040	Introduction to Hydraulics <i>Prerequisite: RNBL 1150</i>	3
<b>CREDITS</b>		<b>18</b>
<b>TOTAL CREDITS</b>		<b>30.5</b>

## OCCUPATIONAL CERTIFICATE

CREDITS		
WET 101	Introduction to Wind Energy	3
RNBL 1060	Electrical Theory for Renewable Energy	4
RNBL 1150	Field Safety and Experience	3
RNBL 1210	Wind Turbine Mechanical Systems	3
RNBL 2040	Introduction to Hydraulics	3
RNBL 1400	Wind Turbine Climbing and Safety	1
<b>TOTAL CREDITS</b>		<b>17</b>

# REFERENCE LIST FOR REQUIRED AND ELECTIVE COURSES

## LABORATORY SCIENCE

### Courses available to fulfill REQUIREMENTS

BIOL 113	BIOL 2310C	CHEM 1216	CHEM 1215C
CHEM 1225C	GEOL 1122	GEOL 1110	GEOL 152
PHYS 1115C	ASTR 1115	PHYS 1230C	PHYS 1240C
Courses available to fulfill ELECTIVES (includes courses listed above)			
BIOL 211	BIOL 212	BIOL 250	GEOL 1160
GEOL 1320	GEOL 1330	GEOL 1130	GEOL 1140
GEOL 1998	GEOL 2155	GEOL 2145	GEOL 270
GEOL 1120	GEOL 2910	GEOL 2920	GEOL 1996
GEOL 280	GEOL 285	GEOL 2997	
GEOL 2991	GEOL 293	MET 115	

## SOCIAL/BEHAVIORAL SCIENCES

### Courses available to fulfill REQUIREMENTS

ANSC 1210	ANSC 1140	CJUS 1110	ECON 2110
ECON 2120	PSCI 102	PSCI 202	PSYC 1110
SOCI 1110	SOCI 2310	SOCI 2240	

Courses available to fulfill ELECTIVES  
(includes courses listed above)

CJUS 2140	CJUS 1120	ECE 101	ECED 1110
ECED 1130	ECE 108	ECE 210	ECON 1110
ECON 2210	BFIN 2140	FIN 114	GEOG 1130
GEOG 1120	GEOG 293	MGT 113	ENTR 2110
MGT 201	MGT 213	MGT 253	PSYC 1150
PSYC 2120	PSYC 2230	PSYC 2310	PSYC 2210
SOCI 1345	SOCI 1350	SOCI 2225	SOCI 2226
SOCI 2260	SOWK 2110	HMSV 2998	

## HUMANITIES

### Courses available to fulfill REQUIREMENTS

ARTH 1110	ARTH 2110	COMM 2120	COMM 1130
ENG 201	ENGL 1410	ENGL 2630	ENGL 2550
ENGL 2680	ENGL 2520	HIST 1110	HIST 1120
HIST 1150	HIST 1160	MUSC 1130	PHIL 2150
PHIL 2230	SPAN 1110	SPAN 1120	SPAN 2110
SPAN 2120	THEA 1110		

Courses available to fulfill ELECTIVES  
(includes courses listed above)

ARTS 1240	ARTS 1250	ARTS 1862	ARTS 1864
ART 110	ARTS 1610	ARTS 1630	ARTS 1840
ART 202	ARTS 2630	ART 204	ARTS 2861
ARTS 2862	ARTS 2610	ARTS 2850	ARTS 2885
ARTS 2996	COM 134	ENGL 2130	ENGL 2993
ENGL 2997	ENG 290	ENG 291	ENGL 2996
FR 101	FR 102	HIST 2110	HIST 160
RELG 1123	RELG 1126	RELG 2140	RELG 2130
SPAN 100	SPAN 293	THTR 121	

## CREATIVE AND FINE ARTS AREA VI

### Courses available to fulfill REQUIREMENTS

ARTS 1240	ARTS 1250	ARTS 1320
ARTS 1610	ARTS 1630	ARTS 1410
ARTS 1710	ARTS 1840	ARTS 2310
ARTS 2850	ENGL 2310	

## ADDITIONAL ELECTIVES

“Electives” also include courses listed in core requirements and all of the above.

FYEX 1110	ACS 200	ACCT 2115	ACCT 111
ACCT 2120	ACCT 2320	ACCT 2240	ACCT 221
ACCT 2125	NUTR 1110	BLAW 2110	BUSA 1110
BUSA 1180	BUSA 1210	BUS 113	BUSA 2998
BUSA 1310	BUSA 2110	BUSA 2340	BUS 289
BUSA 2995	ENTR 2996	BCIS 1115	BCIS 1120
CIS 104	CIS 106	CIS 107	BCIS 2217
BCIS 1160	CIS 120	CIS 150	CIS 155
BCIS 1610	BCIS 2220	CIS 202	CIS 203
BCIS 2230	BCIS 2150	CIS 221	BCIS 2120
CIS 224	CIS 245	CIS 295	CS 150
CS 160	CS 205	CS 210	CS 215
CS 216	CS 220	CS 225	CS 230
CS 235	CS 240	CS 245	CS 246
CS 247	CS 256	CS 257	CS 295
EDUC 1120	EDUC 2110	EDUC 2320	EDUC 2325
EDUC 2330	EDUC 2335	EDU 207	EDUC 1190
ENGL 2210	HLSC 1110	HLSC 1210	HLSC 1310
HLSC 1410	LBS 200	LBS 250	MKT 115
MKTG 1210	BUSA 2180	MATH 1350	

\*Note: This list is not inclusive of all “additional electives.”



# Course Descriptions

New Mexico Common Course Number and Transfer Module Area is listed parenthetically following course description (if applicable). See Transfer Among New Mexico Higher Education Institutions on page 4 - 5 of this catalog.

## Academic Career Studies

### ACS 200 PLANNING FOR CAREER SUCCESS (3)

Planning for Career Success will familiarize students with concepts, ideas and activities designed to develop individual motivation and self-esteem to achieve future career success and satisfaction. The student will be introduced to methods of self-assessment, interest assessment, career exploration, job skills, life skills, and work/career readiness. The students will be engaged in dynamic and interesting activities.

### First-year Experience (FYEX)

#### FYEX 1110 FIRST-YEAR SEMINAR (3)

This course is designed to help students achieve greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Topics may include career exploration, time management, study and test-taking strategies to adapt to different learning environments, interpersonal relationships, wellness management, financial literacy, and campus and community resources.

## Accounting (ACCT)

### ACCT 2115 SURVEY OF ACCOUNTING (3)

Designed to provide a basic understanding of accounting procedures for small businesses. Provides a foundation of the accounting cycle for a small business enterprise and a practical understanding of business financial statements.

### ACCT 2110 PRINCIPLES OF ACCOUNTING I (FINANCIAL) (3)

An introduction to financial accounting concepts

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

### ACCT 2120 PRINCIPLES OF ACCOUNTING II (MANAGERIAL) (3)

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems. Prerequisite: ACCT 2110.

### ACCT 2320 PERSONAL INCOME TAX (3)

This course familiarizes the student with the Internal Revenue codes as they pertain to the individual. Topics include individual tax computation, income, deductions, capital gains and losses, credits and alternative tax methods. The course includes preparation of tax returns and accounting procedures for individuals. Prerequisite: ACCT 111.

### ACCT 2240 COST MANAGEMENT ACCOUNTING (3)

Expands the student's ability to use job order and process costing systems as well as the student's ability to apply and analyze accounting information for decision making in planning and controlling business activities. This includes the collecting of cost information, cost estimation and allocation, standard costs, budgeting and cost-volume-profit relationships. Prerequisite: ACCT 2125.

### ACCT 2125 INTRODUCTION TO INTERMEDIATE ACCOUNTING I (3)

Introduction to intermediate accounting concepts, principles and practices, stressing financial reporting theory, applied financial accounting problems and contemporary financial accounting issues. Focuses on the determination of income and financial position of the corporate form of organization. Prerequisite: ACCT 2120.

## **Agri-Business**

### **ABM 162 ENTREPRENEURIAL BUSINESS**

**(3)**

This course is designed to introduce business management principles used in a proprietorship. Setting up a business, record keeping, customer relations, and marketing strategies are among the topics covered in this course. Students planning to start their own business should benefit from this course.

### **ABM 190 INTERNSHIP IN AGRI-BUSINESS**

**(3)**

This course is designed to provide the student with the opportunity to gain on the job experience. Students gain this experience by working under the direct supervision of an agri-business expert. Exposure to technical skills, business management, and customer relations are the content of this course. The internship can be done fall or spring semester or during the summer session.

### **ABM 266 AGRICULTURE FINANCE (3)**

Characteristics of agriculture in relation to financial costs, risks and returns are reviewed; Practices and procedures of agricultural credit institutions are also considered. The principles of financial management in agriculture are also covered.

### **ABM 290 INTERNSHIP IN APPLIED AGRI-BUSINESS (3)**

This course is designed to provide on the job work experience. Students gain hands-on work experience by working with an expert in agri-business. Knowledge of technical skills, business management, and customer relations are realized in this course. The Internship can be done in the fall or spring semester or during the summer session.

### **Agricultural ECON/ECON (AEEC)**

### **AEEC 1110 INTRODUCTION TO AGRICULTURAL ECONOMICS AND BUSINESS (3)**

Orientation to agricultural economics and business through the discovery process for the consumer in the food, fiber and natural resource sectors of the global economy. The course will discuss the application of micro- and

macro-economic principles as they relate to agricultural economics and business.

### **MARKETING (MKTG)**

### **MKTG 2210 AGRICULTURE MARKETING**

**(3)**

This course explores the principles of marketing agricultural products and commodities. Instruction in the techniques of marketing services provided to agriculture related fields is also provided in this course. Development, analysis and decision-making associated with marketing of agricultural products and services are studied.

## **Allied Health Sciences**

### **AHS 101 INTRODUCTION TO ALLIED HEALTH SCIENCE (3)**

This course introduces students to various health professions and the common knowledge, skills, and professional dispositions necessary for success in the health care field. Students will explore basic concepts in anatomy and physiology, medical terminology, human growth and development, cultural diversity, legal and ethical issues, components of the health care delivery system, roles and responsibilities of health care professionals and educational requirements as they relate to the health care field.

### **AHS 118 STANDARD FIRST AID AND ADULT CPR/AED (0.5)**

Prepare your staff with the knowledge and skills necessary to prevent, recognize, and provide basic care for injuries and sudden illnesses until advanced medical personnel arrive and take over. This course covers standard first aid, adult CPR and AED training and leads to American Red Cross Certification.

### **AHS 125 NURSES AIDE (5)**

Upon successful completion of this certificate, the student will meet all federal certification standards for a nursing assistant and be prepared to sit for the New Mexico Nurses Aide Certification Evaluation Service. Included are basic principles related to body systems, rehabilitation needs, personal care skills, safety and the special needs of families, children, and the elderly.

### **AHS 141 FUNDAMENTALS OF CARDIAC MONITORING (3)**

This course provides an understanding of the functions of the circulatory system and its related diseases. Emphasis is placed on cardiovascular pharmacology, basic reading of EKG's, and in identifying specific arrhythmias. This course may be used as a preparatory course for the Advanced Cardiac Life Support certification.

### **AHS 190 INTERNSHIP IN ALLIED HEALTH (6)**

This course provides the student an opportunity to gain practical experience in a health care setting. Possible locations for healthcare internships could include a hospital, nursing home health care, hospice, community clinic, and Public Health office. Students will identify learning objectives at the beginning of the internship to be evaluated at the end of the semester.

### **AHS 218 BLS FOR HEALTHCARE PROVIDERS (1)**

In this basic life support (BLS) course, students will learn the skills of CPR for victims of all ages and will practice CPR in a team setting. Students will also learn how to use an automated external defibrillator (AED) and how to relieve choking (foreign-body airway obstruction). The skills learned in this course will enable students to recognize emergencies such as sudden cardiac arrest and how to respond to them.

### **EMT 101 FIRST RESPONDER (3)**

The First Responder course trains students to become an important part of the emergency care team. Students will be introduced to the correct knowledge and practical skills to render appropriate lifesaving emergency care such as: airway and respiratory intervention, cardiopulmonary resuscitation, bleeding control, special wound care, stabilization of spinal injuries, and splinting of fractures.

### **EMT 102 FIRST RESPONDER/EMT BASIC REFRESHER (2)**

The First Responder/EMT-Basic Refresher course is designed to review and update the material taught in the First Responder and EMT-Basic curriculums. The EMS Academy and the University of New Mexico,

Health Sciences Center is the parent program under whose auspices this course is conducted.

### **EMT 123 EMERGENCY MEDICAL TECHNICIAN - BASIC (6)**

The Emergency Medical Technician - Basic is designed specifically for emergency medical personnel who have access to specialized vehicles equipped with specialized items of equipment. The course content trains emergency medical personnel to recognize and stabilize patients with life-threatening emergencies at the scene and in transport, utilizing the specialized items of equipment.

### **Nutrition (NUTR)**

#### **NUTR 1110 NUTRITION FOR HEALTH (3)**

This course provides an overview of general concepts of nutrition, which can be applied to food choices that support a healthy lifestyle. The cultural, psychological, physiological and economic implications of food choices are explored.

### **Health Science (HLSC)**

#### **HLSC 1030 MEDICAL TECHNOLOGY (3)**

This course involves an integrated anatomy and physiology system approach for teaching medical terminology to the health care student. This assists students in learning terminology and to incorporate this knowledge through an understanding of anatomy and physiology. In this way beginning students discover the purpose and use of medical terms they are learning and using. This course assist students who are learning medical terminology for the first time as well as providing a broader knowledge of terminology as related to anatomy and physiology.

### **Animal Science (ANSC)**

#### **ANSC 1110 ANIMAL SCIENCE CAREERS (3)**

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 1120 INTRODUCTION TO ANIMAL SCIENCE (3)**

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied.

### **ANSC 1510 EQUINE ANATOMY AND PHYSIOLOGY (3)**

This course presents to students a broad based approach of horse anatomy and physiology with emphasis on the foot and lower leg. A comprehensive look at hoof and leg dissection is also covered in this course. The biomechanics of these structures are also presented.

### **ANSC 2110 INTRODUCTION TO EQUINE BEHAVIOR & TRAINING (3)**

Basic principles, methods and philosophies of handling, breaking and training the two-year old Western horse.

### **ANSC 2120 EQUINE MANAGEMENT (3)**

Introduction and application of the business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

### **ANSC 2130 WESTERN EQUITATION II (3)**

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops.

### **ANSC 2310 INTRODUCTION TO MEAT SCIENCE (4)**

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. Prerequisite: ANSC 170.

### **ANSC 2320 PRINCIPLES OF ANIMAL**

### **NUTRITION (3)**

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied.

### **ANSC 2330 ANIMAL PRODUCTION (3)**

Production and utilization of beef cattle, sheep, and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market.

### **ANSC 2340 GENETICS IN ANIMAL SCIENCE (3)**

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs.

### **ANSC 141 HORSEMANSHIP (3)**

This course is designed to familiarize students with the basic horsemanship concepts and skills. Safety in handling horses (catching, holding, tying, and restraining) and assessment of horses are introduced. Tack and equipment used in the care, handling, and riding of horses are also covered. Students must provide their own horse and tack.

### **ANSC 150 ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS (3)**

This course is designed to provide for the study of various systems within the bodies of animals. The structure and function of these systems is the content of this course. Various farm animals are studied, including the cow, horse, sheep and pig. Other animals are included in certain sections.

### **ANSC 170 LIVESTOCK EVALUATION (3)**

This course provides the student with instruction on the selection, classification, grading and judging of livestock. Evaluation areas include beef cattle, hogs, sheep, horses, and carcass. Students gain valuable



experience in these processes through hands-on practice of selection and judging. Students' oral communication skills are enhanced through practice in giving oral reasons.

### **ANSC 170L LIVESTOCK EVALUATION LAB (1)**

This course is designed for students wishing to gain additional hands-on experience in judging livestock. This practicum based course addresses livestock selection, grading, evaluation, and placing. Corequisite: ANSC 170.

### **ANSC 171 ORAL LIVESTOCK REASONS (4)**

This is an introductory livestock judging course which offers instruction in oral reasons in livestock judging. Many types and styles of oral reasons in defense of placing cattle, swine, sheep, and horses along with livestock carcasses of each species will be covered.

### **ANSC 230 ANIMAL HEALTH AND DISEASE (3)**

This course provides an overview of animal health and the diseases which lead to unhealthy animals. The primary focus is on diseases common to farm animals. The diagnosis, management and control of animal diseases, treatment and prevention are also included.

### **ANSC 255 BEEF PRODUCTION (3)**

This course is designed for students planning a career in some segment of the beef cattle industry. Students will be instructed on management and marketing practices of beef cattle, including selection, breeding, nutrition and reproduction. Production and management of beef cattle in all segments of the industry with a holistic approach are also studied. Prerequisite: ANSC 2330.

### **ANSC 271 ADVANCED LIVESTOCK EVALUATION (4)**

This is an advanced Animal Science course which offers the student an opportunity to study the differences in breeds of livestock, relationships between form and function of livestock, and serves as a preparation for national livestock judging competition. Extensive time will be spent on judging and presenting oral reasons. Prerequisite: ANSC 171.

### **ANSC 285 RUMINANT NUTRITION (3)**

This is an advanced nutrition class focusing on ruminant farm animals: cattle, sheep and goats. Energy, nitrogen and mineral nutrition of ruminants with special emphasis on digestive physiology and metabolism of non-protein nitrogen compounds are covered. Prerequisite: ANSC 2320.

### **ANSC 290 INTERNSHIP-APPLIED ANIMAL SCIENCE (3)**

This course is designed to provide on-the-job work experience. Students gain hands-on work experience with an expert in animal science. Knowledge of technical skills, business management, and customer relations are realized in this course. The internship can be done fall or spring semester or during the summer session. Prerequisite: ANSC 1110.

## **Anthropology (ANTH)**

### **ANTH 1210 INTRODUCTION TO ARCHEOLOGY (3)**

Introduction to Archaeology provides students with an overview of archeological fundamentals and how these can be utilized to understand ancient societies. The course emphasizes the analysis of modern societies as a method of reconstructing the past. There is a detailed case study of the Maya site of Copan.

### **ANTH 1140 INTRODUCTION TO CULTURAL ANTHROPOLOGY (3)**

This is an introductory course that provides an overview of cultural anthropology as a subfield within the broader discipline of anthropology and as a research approach within the social sciences more generally. The course presents core concepts and methods of cultural anthropology that are used to understand the ways in which human beings organize and experience their lives through distinctive cultural practices. More specifically, this course explores social and cultural differences and similarities around the world through a variety of topics such as: language and communication, economics, ways of making a living, marriage and family, kinship and descent, race, ethnicity, political organization, supernatural beliefs, sex and gender, and globalization. This course ultimately aims to present a broad range of perspectives and practices of various cultural groups from

across the globe.

### **ANTH 2160 PREHISTORIC PEOPLES OF THE AMERICAN SOUTHWEST (3)**

This course will explore many aspects of prehistoric peoples in the American Southwest. Beginning with the populating of the Southwest, this course will discuss interactions between these populations and their environment, as well as technological advances, subsistence practices, social structures, and settlement patterns. The course will also explore the processes of change and how prehistoric populations compare with modern ones.

## **Art**

### **Art History (ARTH)**

#### **ARTH 1110 ART APPRECIATION (3)**

This course introduces and explores visual arts, providing an awareness of the significance of the arts at personal, societal and historical levels including both fine and applied arts. (ARTH 1110 - Area V)

#### **ART 1141 ART OF THE COMICS (3)**

With the combination of words and imagery, comics have developed a language of fine art and visual culture within context of visual art. We will study the evolution of this three to four panel comic to trade paper backs and graphic novels, and place the development of the comics in its social context. Distinctive focuses of the course will be the expansion of comic strips in late nineteenth to twenty-first century America; the birth of the comic book in the 1930s with the concept of the superhero, and the rise of underground (or indy) and alternative graphic culture. We will also investigate the semantics of word and image as well as many postmodern theories which attempt to unravel the imagery in the graphic novels from the 1930s to the present. (ARTH 1141 - Area V)

#### **ARTH 2110 HISTORY OF ART I (3)**

This survey course explores the art and architecture of ancient pre-historic cultures through the end of the fourteenth century. While focused primarily on the art of

the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development. (ARTH 2110 - Area V)

#### **ARTH 2120 HISTORY OF ART II (3)**

This survey course will explore the architecture, sculpture, ceramics, paintings, drawings, and glass objects from the 14th century to the modern era. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development. (ARTH 2120 - Area V)

#### **ARTH 2140 ART OF THE AMERICAN SOUTHWEST (3)**

This course examines the major cultures and artistic traditions of the southwest and their historical bases from prehistoric times to the present. (ARTH 2140 - Area V)

### **Arts Studio (ARTS)**

#### **ARTS 1240 DESIGN I (3)**

This course introduces the fundamentals of two-dimensional design as it applies to fine art and commercial contexts. Emphasis will be on basic color theory, elements of dynamic composition, vocabulary of visual arts and design, and development of visual conceptual skills. Students will use a variety of materials and techniques. (ARTS 1240- Area VI)

#### **ARTS 1250 DESIGN II (3)**

This course introduces the basic formal (aesthetic), spatial, and physical aspects of 3-D form as they can be applied to sculptural and functional design. Techniques that explore structure, mass, volume, scale, surface, form, and function are covered, along with various media, which may include paper, wood, clay, and/or metal. (ARTS 1250- Area VI)

### **ARTS 1320 CERAMICS I (3)**

An introduction to the medium of clay incorporating hand building and wheel throwing to introduce the student to both the sculptural and utilitarian uses of clay. The student will also be introduced to a variety of glazing and firing techniques. Out-of-class work required. (ARTS 1320- Area VI)

### **ARTS 1410 INTRODUCTION TO PHOTOGRAPHY (3)**

This course introduces the making of photographic images from a broad viewpoint to consider both as an art practice and as a cultural practice. The course covers technical information on camera use and functionality, composition and visual design, digital workflow and editing, professional functions of manipulating and enhancing images, and printing correctly and effectively. The historical aspects of photography are also covered. Out-of-class work required. (ARTS 1410- Area VI)

### **ARTS 1520 DIGITAL MEDIA I (3)**

This course provides an introduction to two of Adobe's major software applications, Illustrator and Photoshop, which are essential in creating artwork, designing promotional materials, websites and more. Part of the course deals with creating a variety of documents using the major tools of each program, and gaining an understanding of the contemporary graphic industry and basic elements and principles of design. (ARTS 1520- Area VI)

### **ARTS 1530 DIGITAL MEDIA II (3)**

This course introduces one of the major software applications in Adobe Creative Cloud, InDesign, with emphasis on obtaining a working knowledge of this software to create publications and documents of all kinds, promotional materials, press releases, newsletters, website, and more. Prerequisites: ARTS 1520

### **ARTS 1541 INTRODUCTION TO DIGITAL FABRICATION FOR THE ARTS (3)**

This course is a hands-on exploration in the art and process of digital fabrication. The course will assist students in nurturing the ability to efficiently translate

ideas and concepts into digitally produced physical objects. Students will be given the opportunity to create objects utilizing industrial laser and waterjet cutters, 3d printers and a Computer Numerical Control (CNC) mill.

### **ARTS 1542 DIGITAL ART TO 3D CNC (3)**

This course teaches the general concepts of using CNC machines in the studio arts. Through lecture and lab assignments, the student will learn basic skills necessary to convert two-dimensional digital pictures into three-dimensional Computer Aided Design data for surface machining. Toolpaths will be generated and parts will be machined using CNC Machine Tools. Terminology used in the field of CAD/CAM will be emphasized.

### **ARTS 1610 DRAWING I (3)**

This course introduces the basic principles, materials, and skills of observational drawing. Emphasis is placed on rendering a 3-D subject on a 2-D surface with visual accuracy. Other topics include historical and contemporary references as well as an investigation of linear perspective, line, value, shape, space & composition. (ARTS 1610- Area VI)

### **ARTS 1616 DRAWING COMICS & SEQUENTIAL ART (3)**

This studio/history/concept course will explore the role which sequential art and comics play in society and our personal lives. In an increasingly visual culture how does the language of comics help to communicate visual ideas more accurately? This class is designed for the student who wishes to investigate self-expression and storytelling using the narrative form of sequential art. Students will question why we feel the need to tell stories and how our world view is reflected in autobiography. Using the hands-on experience of creating their own comic stories, students learn how to communicate their visual ideas more clearly and accurately. Each class will include a discussion of the concepts of comics using examples and recommended sources of research and inspiration. Topics will include the language of comics, page design, visual thinking strategies, dreaming, memory, wordless comics, writing outlines and wordsmithing. Week by week we will extensively cover an aspect of how and why comics work while students simultaneously create their own sequential art. (ARTS 1616- Area VI)

### **ARTS 1630 PAINTING I (3)**

This course introduces the tradition of painting as a medium for artistic expression. Students will investigate materials, tools, techniques, history and concepts of painting. Emphasis is placed on developing descriptive and perceptual skills, color theory, and composition. Prerequisite: ARTS 1610. (ARTS 1630- Area VI)

### **ARTS 1710 INTRODUCTION TO PRINTMAKING (3)**

This course provides direct experience of exploring basic printmaking processes, including relief, intaglio, and monoprint processes, as well as the investigation of materials/media, tools, techniques, history, and concepts of printmaking. Emphasis is given to solving problems through thematic development while producing a portfolio of prints. (ARTS 1710- Area VI)

### **ARTS 1810 JEWELRY AND SMALL METAL CONSTRUCTION I (3)**

This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects.

### **ARTS 1830 SHOP FOUNDATION (3)**

This course provides an introduction to the proper use of shop facilities with an emphasis on the safety procedures required for their proper use. The course will provide the student with a foundation of technical skills for use in the production of their work in subsequent classes.

### **ARTS 1840 SCULPTURE I (3)**

This course introduces the student to a variety of medium and techniques used in the production of sculpture; along with the historic, conceptual, and esthetic foundations of the sculptural process. (ARTS 1840- Area VI)

### **ARTS 1854 ARTISTIC BLACKSMITHING (3)**

This course focuses on the fundamental techniques of forging and metalsmithing. It will cover the basics of forging, fabrication and finishing, as well as an introduction to decorative processes, ergonomic and functional problems, and the construction of mechanisms. The class is structured with an emphasis on technique, and will include demonstrations each class.

### **ARTS 1860 BEGINNING SPUR MAKING (4)**

This course is designed for introductory level spur making including the overlay of silver. This course will enable students to gain the skills necessary in fabricating the band, shank, hangers and rowels required in making a pair of spurs. Students will also acquire an understanding of the theory and practice of metal cutting, shaping, welding, and finishing of one pair of spurs. Lab will consist of design and completion of a pair of spurs.

### **ARTS 1861 SPURMAKING I (3)**

This course presents the principles and techniques of fabricating spurs. Students gain skills in welding, hard and soft soldering, riveting, and overlay. Students also acquire skills necessary in designing spurs along with understanding form and function.

### **ARTS 1862 BASIC CASTING TECHNIQUES (3)**

Basic Casting Techniques is an introduction to fundamental foundry practices. Students will model several small sculpture and reliefs. At least one project may be chosen to be poured in bronze. Elementary wax chasing, spruing, and metal chasing will be experienced through practical application. Elementary design will be considered.

### **ARTS 1863 SILVERSMITHING FOR THE ARTIST (3)**

This laboratory-oriented course is designed for either farriers or artistic blacksmiths who have a desire to enhance their forging skills. Students are allowed to select and practice the forging or blacksmithing skill of their own choosing.

### **ARTS 1864 ARTISTIC SILVERSMITHING (3)**

This course is designed for introductory level engraving on precious and non-precious metals. This course consists of understanding the theory and practice of hand and power assist engraving on spurs and jewelry.



### **ARTS 1865 ARTISTIC SILVERSMITHING-BIT AND SPUR MAKING (3)**

This course is designed for intermediate level spur making including the overlay and engraving of silver. This course consists of understanding the theory and practice metal cutting, shaping and welding in order to build one pair of spurs. Lab will consist of design and completion of a pair of spurs.

### **ARTS 1866 SILVERSMITHING (3)**

This course is designed for students to gain mastery in fabricating high end silver products. This course will enable students to gain the skills in layout and design, high temp soldering, manufacturing dies to form various silver pieces, placing and soldering of borders. Lab will consist of design and completion of a ranger buckle set.

### **ARTS 1867 BIT MAKING (4)**

This course is designed for entry level bit making. The following topics will be covered-leverage, purchase, leverage-purchase ratio, Mullen and mouthpiece design and placement. Students will also be introduced to tig welding techniques. By course end students will have made one Bayer's style leverage bit, one loose jaw leverage bit, and one snaffle bit. Prerequisites: ARTS 1860

### **ARTS 1869 SIGNAL BIT DESIGN AND FABRICATION (4)**

This course is designed for students in their final semester. In this course students will be required to make a California style spade bit. After successful course completion students will be able to fabricate j-boxes, braces, cricket roller, spoon mouth piece, slobber bar, rein chains, purchase length and leverage. Students will also refine tig welding skills and acquire advanced fabricating skills. Prerequisites: ARTS 1866 and ARTS 2871

### **ARTS 1870 ENGRAVING (4)**

This course is designed for introductory level engraving on precious and non-precious metals. This course consists of understanding the theory and practice of hand and power assist engraving on spurs and jewelry. Students will learn the basic cuts involved in beginning bright cut engraving.

### **ARTS 2010 PORTFOLIO DEVELOPMENT (1-3)**

This course presents the practicalities of building an art career with emphasis on developing a professional portfolio through visual aids, resumes, statements, and presentations. It covers professional practices of the studio artist including self-promotion, contracts, research tools for exhibition venues and other art related opportunities. \*For Cowboy Arts and Studio

### **ARTS 2310 CERAMICS II (3)**

This course continues the students' instruction in ceramics, with an emphasis given to the continuing development of form, surface, and firing processes, expanded critical awareness, and the development of a personal aesthetic. Prerequisite: ARTS 1320 (ARTS 2310- Area VI)

### **ARTS 2610 DRAWING II (3)**

This course introduces color and colored media as an element of composition while emphasizing descriptive and perceptual drawing skills and conceptual approaches to contemporary drawing. Prerequisite: ARTS 1610.

### **ARTS 2615 DRAWING III (3)**

Students will utilize all the knowledge and experience acquired in their previous art courses, in order to create a body of work that demonstrates expertise in drawing. They will further refine and develop drawing techniques and concepts, as well as understanding of basic human anatomy for the purpose of artistic expression. Linear perspective, compositional structure, figure/ground integration, spatial perception, and analytical skills will be emphasized extensively.

### **ARTS 2621L DRAWING FOR ANIMATION (3)**

An intermediate level course in drawing for animation and cartooning. Students work with drawing as a progressive story-telling medium, with introduction to storyboarding for film as well as the graphic novel. Students are introduced to the work of cartoonists and animators, whose work has been historically influential in the field. This course provides students with the drawing skills needed for successful use of digital animation tools.

### **ARTS 2630 PAINTING II (3)**

This course focuses on the expressive and conceptual aspects of painting, building on the observational, compositional, technical, and critical skills gained previously. Students will investigate a variety of approaches to subject matter, materials, and creative processes through in-class projects, related out-of-class assignments, library research or museum/gallery attendance, written responses, and critiques. Prerequisite: ARTS 1630.

### **ARTS 2850 ARTS FOUNDRY I (3)**

This course provides the student with an introduction to the use of the casting process in the creation of sculpture. Both sand mold and ceramic shell casting methods will be used. (ARTS 2850- Area VI)

### **ARTS 2861 MODELING SCULPTURE AND MOLD MAKING (3)**

In this course students will create sculptures by modeling the form in plasticine clay. Visual expression of personal concept will be an important factor in each sculpture. Participation in formal and conceptual class critiques will be mandatory for each assignment. Students will create rubber molds from each sculpture, from which wax patterns may be cast in a future class.

### **ARTS 2862 CASTING WAX AND BRONZE (3)**

In this course students will cast wax patterns from molds created in a previous course (Modeling Sculpture and Mold making). Those wax patterns will continue through the entire bronze casting process, including finishing and patination of the sculpture. The student will personally perform each step in the process.

### **ARTS 2866 ARTISTIC SILVERSMITHING – ENGRAVING (3)**

This course is designed for introductory level engraving on precious and non-precious metals. This course consists of understanding the theory and practice of hand and power assist engraving on spurs and jewelry.

### **ARTS 2870 ENGRAVING II (4)**

This course is designed for intermediate level engraving on precious and non-precious metals. This course consists of understanding the theory and practice of more advanced scroll designs and refining techniques learned

in ARTS 1870. Students will learn how to draw and design interlocking scrolls, 2 & ½ scrolls, and the incorporation of positive and negative space to create pleasing design patterns. Prerequisite: ARTS 1870

### **ARTS 2871 ENGRAVING III (4)**

This course is designed for the more advanced level engraver. This course will require greater graver control than previous classes and will consist of creating a three dimensional effect through the use of single point line placement. Students will master the techniques involved in creating high tones, mid tones, base tones and high lights to create different effects. Students will also learn the techniques involved in relief of backgrounds. Advanced scroll design from ARTS 2870 will be used but students will be taught how to properly design and engrave complex acanthus leaf structures within these scroll structures. Prerequisites: ARTS 1870 and ARTS 2870

### **ARTS 2880 ADVANCED PROJECT DESIGN (2)**

This course is designed for students in their final semester. After successful course completion students will be able to fabricate a project that requires use of a metal lathe and milling table. Students will also refine tig welding skills and other advanced fabricating techniques. Students will design and fabricate a California style spur. Prerequisites: ARTS 1866 and ARTS 2871.

### **ARTS 2885 STUDIO (1-4)**

This course provides the student who is enrolled in another art course the opportunity for additional working time to complete projects required for those courses. No work originating outside of a current course may be worked on in the course. All safety practices and precautions relating to processes and procedures performed must be observed at all times. Prerequisite: Instructors permission.

## **ARTS 2996 SPECIAL TOPICS**

### **(1-9 CREDITS)**

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree. Prerequisite: Consent of the instructor.

## **ARTS 2999 CAPSTONE (1-4)**

The cumulative capstone experience for students majoring in Studio Art, Digital Media Arts, or Cowboy Arts/Silversmithing and Fabrication. Topics include: documenting artwork, an introduction to gallery practices, the selection of work for display, portfolio development, and the Artist Statement. Includes the presentation of a body of work in an exhibition and a final portfolio. Prerequisite: Instructor permission.

## **ART 121 METHODS OF GRAPHIC DESIGN (3)**

Students will gain a working knowledge of the elements and principles of two-dimensional (2-D) design with which to develop a vocabulary of design and visual thinking skills. The creation of art forms historical and contemporary, as well as technical approaches regarding material use and methods for thinking creatively, will be explored.

## **ART 202 FIGURE DRAWING (3)**

Figure drawing introduces the student to drawing the human form with an emphasis upon critical inquiry and analytical observation. The study of skeletal and muscular structure will be covered in this course. Critical analysis of personal and of fellow students' art work is an important element of this course. Prerequisite: ARTS 1610.

## **ART 204 SCULPTURE II (3)**

In Sculpture II, students will choose their media and method of sculpture personally. Students will present a written proposal of what they plan to accomplish during the semester, how they plan to accomplish it, and why. A series of three sculptures which share and carry forward that stated conceptual basis will be completed. Evaluation of personal and fellow students' work is important in the course. Prerequisite: ARTS 1840.

## **ART 212 GRAPHIC COMMUNICATIONS I (3)**

Students will learn to design and produce press-ready projects appropriate for a particular clientele. Students will learn to identify and design for a specific target market based on research done using demographics and by studying 'demo groups'. Students will complete projects making style and design decisions based on this research. Students will use the Macintosh operating system and any or all of the programs in the Adobe Creative Suite (Photoshop, Illustrator and InDesign) to complete projects. Prerequisite: ART/CIS 153

## **ART 213 GRAPHIC COMMUNICATION II (3)**

Students will learn to design and produce a comprehensive 'brand identity' that will be used to complete several graphic applications to promote a solution to an issue of global importance. Students will learn to identify and understand cultural norms other than their own through research and study of other cultures. Students will also complete an extensive portfolio of their work in order to prepare for future employment or for continuing education. Students will use the Macintosh operating system and any or all of the programs in the Adobe Creative Suite (Photoshop, Illustrator and InDesign) to complete projects. Prerequisites: ART/CIS 212.

## **ART 226 BASIC WEB DESIGN (3)**

Students will use the Macintosh computer to employ knowledge from previous courses in order to use the Adobe Bridge, Photoshop, and Illustrator to create graphics and images for web pages. Students will learn industry-standard web design software to set up a new web site, add text and images with CSS (cascading style sheets) and learn how to manage, optimize and maintain the site. Prerequisites: ARTS 1240 and ART 135 or BCIS 1120 and CIS 135 (or instructor consent)

## **ART 260 PRINTMAKING II (3)**

Exploration of ideas using various printmaking media and techniques. This course builds upon Printmaking I fundamentals and introduces additional print processes and combinations of those processes to allow individual expression. Prerequisite: ARTS 1710.

### **ART 262    ADVANCED BIT DESIGN (3)**

This course is designed for advanced level engraving on precious and non-precious metals. This course consists of understanding the more advanced methods of hand and power assist engraving on spurs and jewelry. Prerequisite: FAS 208.

### **ART 263    ADVANCED JEWELRY**

#### **FABRICATION (3)**

This course presents the principles and techniques of fabricating Western style jewelry. Students gain skills in welding, hard and soft soldering, riveting, stone setting, and overlay. Students also acquire skills necessary in correctly designing jewelry items along with understanding form and function. Prerequisites: ARTS 1863 and ARTS 1865.

### **ART 264    ADVANCED ENGRAVING**

#### **TECHNIQUES (3)**

This course is designed for advanced level engraving on precious and non-precious metals. This course consists of understanding the more advanced methods of hand and power assist engraving on spurs and jewelry. Prerequisite: ARTS 2866.

### **ART 290    SILVERSMITHING STUDIO (3)**

This course is designed for students who have taken a previous Western Arts class and would like to use the lab areas to work on personal projects, further refine existing skills or receive instruction in areas of weakness. Students may work in both the fabrication lab and the engraving lab. Prerequisite: Any previous Western Arts class.

### **ART 293I    SPECIAL TOPICS:**

#### **SILVERSMITHING (3)**

This course is a week-long class from 8 AM to 9 PM with two one hour breaks taught by multiple instructors designed for intermediate to advanced level engravers. This course consists of understanding the theory and practice of more advanced scroll designs, leaf structures, single and multiple wire inlay and styles of scrolls. Students are required to spend a total of at least 15 lab hours prior to the class fabricating a project to work on during class and another 10 after the class on completing the engraving. The final project must be submitted pictorially to instructors for final approval. Prerequisite: ARTS 2870 or instructor approval

### **ART 294    SPECIAL TOPICS:**

#### **FABRICATION (3)**

This course is a comprehensive study in fabricating of the many ornamental trappings used in western culture. Fabricating rope borders, three piece buckle sets, advanced conchos and other such items will be taught. Students will also gain knowledge in tig welding and high temperature solders and the subsequent cleanup of fabricated items. Upon course completion, students will have gained all the necessary skills in the fabrication of all high-end ornaments and devices used and worn by individuals in western culture.

### **Film & Digital Media Arts (FDMA)**

### **FDMA 1515 INTRODUCTION TO DIGITAL**

#### **IMAGE EDITING – PHOTOSHOP (3)**

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects.

### **FDMA 1535 INTRODUCTION TO**

#### **ILLUSTRATOR (3)**

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication.

### **FDMA 1570 GAME DESIGN ANALYSIS (3)**

An overview of games past to present and analysis of specific video game genres. Students learn the historical and cultural significance of video games through lecture and research. Students analyze and write about a different genre or video game each week. Topics include game history, game analysis, game mechanics, game design, and game theory.



### **FDMA 1720 3D CHARACTER DESIGN (3)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques.

### **FDMA 2290 ADVANCED DIGITAL PROJECTS (3)**

Students work on advanced individual projects using the skills and concepts they learned in intermediate-level MART classes including Photoshop, Web, Animation, Graphics, and Video. Feedback and instruction is provided by student presentations and interaction, and one-to-one contact with the instructor.

### **FDMA 2381 STORYBOARDING (3)**

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling—in film—through the use of the storyboard. In other words, to show how storyboards are a critical “architectural component” of the filmmaking process, used as a blueprint (or guide) to communicate the complex elements of a film story.

### **FDMA 2530 INTRODUCTION TO 3D MODELING (4)**

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.

### **FDMA 2532 INTRODUCTION TO 3D-PRINTING (3)**

Introduction to the creation, manipulation and critical interpretation of graphic and photographic artwork. Includes input and output of digital work as it applies to artists. As an entry-level course, it assumes no prior knowledge of the tools and techniques covered.

### **FDMA 2534 3D MODELING SCULPTURE (3)**

Students in this course learn and practice 3D modeling as a tool for visualization and critical making. 3D printing, laser cutting, CNC milling, and other rapid prototyping may be used. 3D modeling is the main focus of this course to sketch, invent and produce both virtual 3D renders and physical projects. Study of concepts, aesthetics, procedures, and practice of sculpting on the computer with 3D modeling tools for the generation of form, environment, and character as related to your conceptual inspirations.

### **FDMA 2710 BEGINNING 2-D ANIMATION (3)**

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software.

### **FDMA 2720 3-D ANIMATION (4)**

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, key frame and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

### **FDMA 2730 ADVANCED CHARACTER ANIMATION (3)**

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.

### **FDMA 2768 INTRODUCTION TO GAME DEVELOPMENT (3)**

In tandem with innovations of modern computing machines, people have been devising ways to “play” with these systems through programming games on these devices. Video games have matured into an expressive medium rooted in using algorithms as the means for constructing interactive experiences. Building these games requires an understanding on principles of interactive design, computer science, and storytelling.

# Automotive Technology

## **AMT 100 AUTOMOTIVE BASICS (2)**

This course is a comprehensive study of basic automotive systems. Topics include the study of shop safety, proper use of hand tools, fasteners, gaskets, seals and sealants, measuring tools and an introduction to engine operating systems including electrical, ignition, fuel, cooling and lubrication. This will be a Corequisite course for any new incoming students taking any Automotive and Diesel courses.

## **AMT 101 BRAKES, STEERING, SUSPENSION, ALIGNMENT THEORY (3)**

This course covers the basics of tire and wheel construction, theory of component function and operation of brake, suspension, and steering systems. Topics include principles of hydraulics, suspension geometry, alignment angles, and wheel balance. Emphasis is placed on preventive maintenance, system diagnosis and failure analysis. The course involves discussion and demonstration of proper operation of brake lathes, wheel balance and alignment machines. Safety will be emphasized in the use of all specialized shop tools and equipment and will follow standards set by the Council of Automotive Service Excellence (A.S.E.).

## **AMT 102 BRAKES, STEERING, SUSPENSION, ALIGNMENT LAB (3)**

This course includes diagnosis of brake system problems, repair and service of brake systems using the proper procedures, methods, tools and equipment. Students receive practical shop experiences analyzing and correcting various suspension and steering problems, front-end and rear-end alignment, and steering systems repair. Corequisite: AMT 101.

## **AMT 111 ELECTRICAL SYSTEMS THEORY (3)**

This course is the study of basic electricity, automotive circuitry, and wiring diagrams. Students will receive complete coverage of the batteries, starting, charging and accessory systems including application, testing, diagnosis, and repair. Corequisite: AMT 112.

## **AMT 112 ELECTRICAL SYSTEMS LAB (3)**

This course involves practical application, analysis and repair of areas and systems covered in the electrical systems theory class. It also involves use of This course

involves practical application, analysis and repair of areas and systems covered in the electrical systems theory class. It also involves use of proper methods, tools, specifications and equipment. Corequisite: AMT 111.

## **AMT 121 ELECTRICAL TUNE-UP AND FUEL SYSTEMS THEORY (3)**

This course covers ignition systems including standard, transistorized and electronically controlled systems. Basic fuels, fuel delivery and carburetion as well as electronic fuel injection and multi-port fuel injection are discussed. Students gain knowledge of emission control component theory of operation and diagnosis. Prerequisite: AMT 111.

## **AMT 122 ELECTRICAL TUNE-UP AND FUEL SYSTEMS LAB(C) (3)**

This course involves practical application, repair and diagnosis of ignition, carburetion and emissions systems. Hands-on experience is provided through the use of customer vehicles. Corequisite: AMT 121.

## **AMT 131 AUTO ELECTRONICS THEORY (3)**

Automotive Electronics Theory is the study of the complete electronics system, which includes microprocessors, sensors and actuators of the computerized ignition, fuel injection and emission control systems. The course provides students with coverage of the circuits, application, operation, testing and diagnosis of the above systems. Prerequisite: AMT 121.

## **AMT 132 AUTOMOTIVE ELECTRONICS LAB (3)**

Lab experiences in Automotive Electronics Lab correspond to the material covered in AMT 131. The course includes the proper use of tools, scanners and other test equipment to diagnose the computers, sensors and actuators, along with the repair and adjustment of the computerized ignition, fuel and emission systems.. Corequisite: AMT 131.

## **AMT 190 INTERNSHIP IN AUTOMOTIVE TECHNOLOGY (3)**

Students in this course receive on-the-job experience in a dealership, national chain service facility or independent repair facility under the direct

supervision of the program instructor. Students utilize the skills and knowledge acquired in the previous year. Students will be able to base future employment decisions on the experience received. Note: Students who complete two full semesters of automotive courses and are not employed, may sign up for this course and take it as a Capstone Lab or a combination of each. Prerequisite: Successful completion of first and second semesters of automotive technology or approval of the program director.

**AMT 201 CLUTCH, MANUAL TRANSMISSION/ TRANSAXLE, DRIVE SHAFT, AND DIFFERENTIAL THEORY (3)**

This course provides instruction in automotive clutch purposes, design and function, along with the workings of the various modern three-, four-, and five-speed standard transmissions and transaxles. Topics include discussion of drive shaft assemblies along with differential and front wheel drive types. Prerequisite: AMT 100.

**AMT 202 CLUTCH, MANUAL TRANSMISSION/ TRANSAXLE, DRIVE SHAFT, AND DIFFERENTIAL LAB (3)**

This course Involves lab work relative to the clutch, manual transmission/transaxle, driveshaft, and differential. It includes use of correct diagnostic, reconditioning and/or overhaul procedures. Corequisite: AMT 201.

**AMT 211 AUTOMATIC TRANSMISSIONS/ AXLE THEORY (3)**

This course provides the fundamentals of hydraulics, planetary gears, holding devices, and their application to automatic transmissions. Students are introduced to the various components and their functions, along with rebuilding the power flows of various present-day automatic transmissions, including four speed over-drives and front wheel drive systems. Prerequisites: AMT 100, AMT 201 and AMT 202.

**AMT 212 AUTOMATIC TRANSMISSIONS/ TRANSAXLE LAB (3)**

This lab includes complete servicing and adjustment procedures, troubleshooting, diagnosis, repair and overhaul of various present-day automatic

transmissions in a live shop. It provides maximum supervision and guidance for completion of this very complex and exacting work. Corequisite: AMT 211.

**AMT 221 MAJOR ENGINE THEORY (3)**

This course includes the complete theory and techniques of rebuilding, servicing, and diagnosing of the internal combustion engine and its related parts and systems.

**AMT 222 MAJOR ENGINE LAB (3)**

This course consists of practical application in the techniques of rebuilding and servicing the automotive and light truck engines and their related systems, using the proper procedures, tools and testing equipment.. Corequisite: AMT 221.

**AMT 231 AUTO ENVIRONMENTAL SYSTEM THEORY (3)**

This course covers principles of evaporation, heat transfer, temperature and pressure. Students become familiar with various systems in regard to circuits, components and their operation in each application. The course includes an explanation of heating and air conditioning systems as presently used in today's automobiles, including integrated and isolated installation, and their corresponding control systems. Students are provided with instruction on the proper use of refrigerant recovery/recycling/recharging equipment. Prerequisite: AMT 111.

**AMT 232 AUTOMOTIVE ENVIRONMENTAL SYSTEMS LAB (3)**

This lab includes diagnosis, service, repair, installation, and overhaul of live environmental systems. It covers custom, factory, and automatic systems of the popular makes and models used in present-day automobiles. Personal safety is stressed. Corequisite: AMT 231.

**AMT 290 INTERNSHIP IN APPLIED AUTOMOTIVE TECHNOLOGY (3)**

AMT 290 is a continuation of AMT 190 Internship in Automotive Technology. This course provides students with additional hands-on experience under the direction of the program instructor. Prerequisite: AMT 190.

**AMT 293 ADVANCED LAB FOR APPLIED AUTOMOTIVE (3)**

AMT 293 is a continuation of AMT 190 and AMT

290 Internship in Automotive Technology. This lab course provides students with additional hands-on experience under the direction of the program instructor. Prerequisites: AMT 190 and AMT 290.

## **Biology (BIOL)**

### **BIOL 1110C GENERAL BIOLOGY**

#### **LECTURE & LABORATORY (4)**

Combination of BIOL 1110 and 1110L.

### **BIOL 1411 GENETICS (4)**

This course introduces the student to the basics of Genetics and heredity, and proceeds with an in-depth examination of genetic diseases, population Genetics, stem cell research and genetic engineering. Each topic will be accompanied by extensive lab work, experiments, semester projects and writing assignments with the aim to teach the student the methods of scientific writing.

### **BIOL 124 INTRODUCTION TO FORENSIC SCIENCE (4)**

This course introduces the student to Forensic science as a practical application of science to matters of the law. In this class the student will study the basic techniques of forensic science, such as DNA fingerprinting, the classification of illicit drugs, the preservation of evidence, crime scene investigation and many other laboratory and field techniques such as the detection of art forgery, investigation of fire and explosions, and ballistic. Each subject is accompanied by practical exercises and lab work.

### **BIOL 2210C HUMAN ANATOMY AND PHYSIOLOGY I LECTURE & LABORATORY (4)**

Combined BIOL 2210 and BIOL 2210L

### **BIOL 2215 COMPARATIVE VERTEBRATE ANATOMY (4)**

This course presents an introduction to the anatomy of vertebrate animals. Students will explore the basic structure and functions of vertebrates including the skeleton, musculature and physiological systems. Laboratory exercises will emphasize the skeleton of mammals including humans, birds, and reptiles using real specimens and will include examination of fossil vertebrates and virtual dissections on computers. Prerequisite: BIOL 1110C, or ANSC Course or FAS course (or consent of instructor).

### **BIOL 2310C MICROBIOLOGY LECTURE & LAB (4)**

Combined BIOL 2310 and BIOL 2310L. (BIOL 2514 - Area III)

### **BIOL 212 HUMAN ANATOMY AND PHYSIOLOGY II (4)**

This course is a continuation of Human Anatomy and Physiology I. The following systems of the human body are covered: nervous, endocrine, blood, cardiovascular, lymphatic, digestive, respiratory, urinary and reproductive. The lecture portion of the course introduces the student to the systems of the human body while the laboratory portion of the course allows the student the opportunity to electronically explore the structure and function of these systems. Prerequisite: BIOL 2210C.

## **Building Trades**

### **BT 105 INTRODUCTION TO BUILDING TRADES AND SAFETY (3)**

Topics in this course are the history of the building trades and how they each fit into the building process. Students will be introduced to employability of the employee in the building trades. Students will be introduced to safety in the trades and on the building site. They will also be introduced to and instructed in the use of basic hand and power tools.

### **BT 111 CONSTRUCTION TECHNOLOGY I (3)**

Topics in this course are site layout, distance



measurement and leveling, handling and placing concrete. Concrete reinforcement and methods and materials for reinforcement Students will be introduced to Masonry, the history of Masonry materials and the materials that are in use today. Students will learn about Masonry units and installation techniques.

### **BT 112 CONSTRUCTION TECHNOLOGY II (3)**

Topics in this course are site layout, distance measurement and leveling, and handling and placing concrete. Students will be introduced to the construction of floor systems, wall, ceiling, and roof framing, and will learn how the various trades fit into the building process. Prerequisite: BT 111.

### **BT 115 FUNDAMENTALS OF FRAMING (3)**

This course is a hands-on study of basic framing. Topics will include wood as a building material, engineered lumber, engineered panel products, framing methods, floor framing, wall and ceiling framing, roof framing, rafter types, trusses and roof assembly. Other topics include framing of windows, exterior doors and basic stair layout. Prerequisites: BT 103 and BT 111

### **BT 116 BLUEPRINT INTERPRETATION (3)**

This course introduces students to the skills necessary for reading blueprints. Students will explore projections and views, technical sketching, and the use of blueprints in construction. Instruction will also include information on graphic and pictorial representation, working drawings and structured building details.

### **BT 118 INTRODUCTION TO ELECTRICAL (3)**

Topics in this course are safety on the job-site when working with electricity, common job-site hazards, and working safely with electrical. Students will learn about calculating circuit size including volts, amperes, and wattage, working with different gauges or size of electrical wiring to wire the circuit with the proper size. Students will follow the NEC (National Electrical Code) for proper location and ratings of duplex plugs, light fixtures, and other electrical appliances. Students will receive hands on experience as they wire a new

residential home.

### **BT 121 CONSTRUCTION TECHNOLOGY III (3)**

Topics in this course include roof framing and roofing applications and coverings, such as asphalt shingles and rolled roofing. Stair layout and construction methods for installing and finishing. Students will learn how these various trades fit into the building process. Prerequisite: BT 112.

### **BT 122 INTERIOR FINISHING (3)**

Topics in this course are Drywall installation, Drywall finishing, Door installation, and door hardware. Students will learn how these various trades fit into the building process. Prerequisite: BT 115.

### **BT 190 INTERNSHIP IN BUILDING TRADES (3)**

This course offers 3 credits in a supervised work program. The first-year student is employed in an approved business occupation. Students will be supervised and rated by the employer and instructor. Students will meet in a weekly class and/or report on a variety of films, readings, or seminars.

### **BT 201 EXTERIOR FINISHING (4)**

Topics in this course are Thermal and Moisture protection and different types of exterior finishes. Different types of coatings such as paints and stucco will be covered. Students will learn how these various trades fit into the building process.

### **BT 202 CONSTRUCTION TECHNOLOGY IV (3)**

Topics in this course build on Construction Technology III. Students will become skilled at advanced construction techniques including site layout, floor systems, wall and ceiling framing, roof framing, roofing applications, exterior finishing, and basic stair layout. They will learn how the various trades fit into the building process as they participate in "hands-on" training on the project house. Prerequisite: BT 112.

## **BT 215 CONSTRUCTION SUPERVISION (4)**

Topics in this course include pre-construction planning, project management, contracts, and fiduciary responsibilities. Students will learn the basics of project preparation, scheduling, project documentation, accountability and the pros and cons of a well-organized project. Prerequisite: BT 202.

## **BT 250 COMPUTER AIDED DESIGN (4)**

This is a beginning course providing instruction in mastering fundamental AutoCAD Lite commands and drawing techniques. Typical applications of AutoCAD are presented with basic drafting and design concepts. The topics are covered in an easy to understand sequence and progress in a way that allows students to become comfortable with the commands as their knowledge builds.

## **BT 260 PROJECT MANAGEMENT (4)**

Topics in this course include pre-construction planning, project management, contracts, and fiduciary responsibilities. Students will learn the basics of project preparation, scheduling, project documentation, accountability and the pros and cons of a well-organized project.

## **BT 290 INTERNSHIP IN BUILDING TRADES II (3)**

This course offers three credits in a supervised work program. The second-year student is employed in an advanced, approved business occupation. Students will be supervised and rated by the employer and instructor. Students will meet in a weekly class and/or report on a variety of films, readings, or seminars. Prerequisite: BT 190

## **Business**

### **Business Administration (BUSA)**

#### **BUSA 1110 INTRODUCTION TO BUSINESS (3)**

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and finance; and the global environment in which they operate.

#### **BUSA 1180 BUSINESS MATH (3)**

Applies basic mathematical operations to business and accounting applications.

#### **BUSA 1210 RECORDS MANAGEMENT (3)**

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

#### **BUSA 1310 OFFICE PROCEDURES (3)**

Student will learn the importance of following the proper procedures for maintaining an efficient office required in today's technology advanced business environment. Through the use of a simulation, students will utilize the skills acquired through their training program and work experience to prepare documents and complete common business tasks. Prerequisite: BUS 100 or equivalent.

#### **BUSA 2110 BUSINESS COMMUNICATIONS (3)**

Skill development in business writing with an emphasis on the preparation of letters and reports, and on presenting information in a logical, forceful and acceptable form. Included are strategies for effective oral communication in a professional environment.

#### **BUSA 2180 INTRODUCTION TO E-COMMERCE (3)**

Survey of methods and practices in e-commerce. Topics include the evolution and forms of e-commerce, secure online business transactions, and basic business concepts of e-commerce.

#### **BUSA 2340 SALES (3)**

An analysis of the principles and techniques of personal selling as a form of persuasive communication. Sales principles, consumer behavior, the process of the sales interview, and demonstration of selling and promotional

skills are explored.

### **BUSA 2995 COOPERATIVE WORK EXPERIENCE (1-3)**

This course offers 1-3 credits in a supervised work program. The first-year student is employed in an approved business occupation. Students will be supervised and rated by the employer and instructor. Students will meet in a weekly class and/or report on a variety of films, readings, or seminars. Enrollment requires consent of the instructor.

### **BUSA 2998 INTERNSHIP IN BUSINESS ADMINISTRATION (3)**

This course offers 1-3 credits in a supervised work program. The first-year student is employed in an approved business occupation. Students will be supervised and rated by the employer and instructor. Students will meet in a weekly class and/or report on a variety of films, readings, or seminars. Prerequisite: Consent of the instructor.

### **BUS 289 INDEPENDENT STUDY IN BUSINESS (1-3)**

This is an individual, directed study arrangement with the instructor. Prerequisite: Consent of the instructor.

### **FIN 114 PRINCIPLES OF FINANCE (3)**

This course introduces the basic elements of business finance: institutions and markets, review of financial statements, financial analysis of forecasting, working capital management, capital budgeting, cost of capital, long term financing, investing, and international business finance. Prerequisite: ACCT 111.

### **Business Computer Information Systems (BCIS)**

#### **BCIS 1115 INTRODUCTION TO COMPUTERS (4)**

This is a lecture and hands-on course on different technologies commonly use in business and different agencies like computer, printer and other computer devices. It includes introduction to hardware, operating software, and MS Office applications like Excel, Word, Access, PowerPoint, Publisher, & other MS Office

Tools. The class will include an overview of the history of technology and its future, as well as giving a fundamental introduction to industry-standard application software for word processing, spreadsheet, database management, and graphics. Basic computer use, files and file structure, windows, the Internet, programming, ethics, and security will also be addressed.

#### **BCIS 1120 COMPUTER LITERACY (3)**

Overview of computer hardware, software, and the Windows or Linux environment. You will cover basic computer operating principles, file management, the using the Internet, along with an introduction to word processors, spreadsheets, and database programs.

#### **BCIS 1160 WINDOWS (4)**

This course prepares students to develop the skills needed to deploy and manage Windows. Students will learn how to manage and troubleshoot Windows 10 devices in a secure network environment. Students will also learn to run multiple operating systems using client Hyper-V. Microsoft Intune will be utilized to teach students to manage Windows 10 mobile and desktop devices in a cloud-based environment. Out-of-class computer work is required.

#### **BCIS 1215 INTRODUCTION TO MS EXCEL (1)**

Introduction to the electronic spreadsheet, specifically how to use, design, and edit spreadsheets for use in a variety of personal and business applications.

#### **BCIS 1220 INTRODUCTION TO MS WORD (1)**

A brief overview of the word processing application package, Microsoft Word. You will learn to create basic documents, such as letters and memos. You will be provided with the basic knowledge as well as hands-on experience to allow you to become computer literate in Word.

#### **BCIS 1230 INTRODUCTION TO MS POWERPOINT (1)**

Introduction to the electronic presentation, specifically

how to use, design, and edit presentation graphics for use in a variety of personal and business applications.

### **BCIS 1610 INTERMEDIATE COMPUTING (4)**

This course is a continuation of BCIS 1115 Introduction to Computers. This is the second course in a series of three that prepare the student to become Microsoft Office User Specialist (MOUS) certified. Word processing, spreadsheet, database, and presentations software are continued with intermediate skills being obtained. Out-of-class computer work is required. Prerequisite: BCIS 1115.

### **BCIS 2120 DESKTOP PUBLISHING (4)**

This course utilizes a variety of software packages to produce reports, brochures, advertisements, correspondence and newsletters. Various software packages are used such as Microsoft Office Publisher and Adobe InDesign CS Suite.

### **BCIS 2150 ADVANCED COMPUTING (4)**

This course is a continuation of BCIS 1610 Intermediate Computing. This is the third course in a series of three that prepare the student to become Microsoft Office User Specialist (MOUS) certified. Wordprocessing, spreadsheet, database, and presentations software are continued with advance skills being obtained. Out-of-class computer work is required. Prerequisite: BCIS 1610.

### **BCIS 2217 MS EXCEL (4)**

This course provides an in-depth study of Microsoft Excel spreadsheet software.

### **BCIS 2220 MS WORD (4)**

Covers the commands of Microsoft Word by using step-by-step applications; provides a working knowledge of the basic and intermediate capabilities of Microsoft Word on an IBM compatible.

### **BCIS 2230 MS POWERPOINT (4)**

Microsoft PowerPoint is a complete presentation graphics software program that produces a professional looking presentation. PowerPoint enables informal presentations in a small conference room using overhead transparencies.

## **Business Finance**

### **BFIN 2140 PERSONAL FINANCE (4)**

Introduces tools and techniques of personal financial management. Includes budgeting, credit, insurance, personal income tax, and retirement/estate financial planning.

## **Business Law**

### **BLAW 2110 BUSINESS LAW I (3)**

Survey of the legal environment of business and common legal principles including: the sources of law, dispute resolution and the U.S. court systems, administrative law, tort law, contract law, agency and employment law, business structure and governance, ethics and corporate social responsibility. Explores sources of liability and presents strategies to minimize legal risk.

## **Economics (ECON)**

### **ECON 1110 SURVEY OF ECONOMICS (3)**

This course will develop students' economics literacy and teaches students how economics relates to the everyday life of individuals, businesses and society in general. The course will also introduce students to the roles different levels of governments play in influencing the economy. At the conclusion of the course, students will be able to identify economic causes for various political and social problems at national and international levels, and have a better understanding of everyday economic issues that are reported in media and public forums.

### **ECON 2110 MACROECONOMIC PRINCIPLES (3)**

Macroeconomics is the study of national and global economies. Topics include output, unemployment and inflation; and how they are affected by financial systems, fiscal and monetary policies. Prerequisite: MATH 101. (ECON 2113 - Area IV)

### **ECON 2120 MICROECONOMIC PRINCIPLES (3)**

This course will provide a broad overview of microeconomics. Microeconomics is the study of



issues specific to households, firms, or industries with an emphasis on the role of markets. Topics discussed will include household and firm behavior, demand and supply, government intervention, market structures, and the efficient allocation of resources.  
(ECON 2123 - Area IV)

### **ECON 2210 INTERNATIONAL ECONOMICS (3)**

This course explores the prominent forces and core concepts of international economics and the relationships of nations and economic policy. It offers fresh perspectives on major world events of the last 40 years and recent economic milestones, such as the European Economic Community and the economic transformation of Russia and Eastern Europe.

### **Entrepreneurship (ENTR)**

### **ENTR 2110 SMALL BUSINESS MANAGEMENT (3)**

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise.

### **ENTR 2996 TOPICS IN ENTREPRENEURSHIP (1-3 )**

This course is related to a special topic in the field of business. The topic will be identified in the course schedule.

### **Management (MGMT)**

### **MGMT 2110 PRINCIPLES OF MANAGEMENT (3)**

An introduction to the basic theory of management including the functions of planning, organizing, staffing, leading, and controlling; while considering management's ethical and social responsibilities.

### **MGT 201 BUSINESS MANAGEMENT (3)**

Topics in this course include the market survey to determine demand, factors of location, financing, legal forms, purchasing and inventory control, compilation of financial statements, budgeting and cash flow control, marketing and merchandising, pricing and promotion, business risk and insurance, the use of computers in business, and the business plan.

Prerequisites: ACCT 111 and MGT 113.

### **MGT 213 HUMAN RESOURCE MANAGEMENT (3)**

This course focuses on the principles, policies, and practices of human resources planning, job analysis and design, recruitment, selection, training and development, employee and labor relations, compensation, and occupational health and safety in organizations.  
Prerequisite: MATH 2110.

### **MGT 253 BUSINESS POLICY (3)**

This capstone course explores the operations of various organizations. An emphasis is placed on the integration and formulation of the major functional areas within an organization. The case method is used to provide practical experience in evaluating, analyzing, and solving organizational problems. Prerequisite: Sophomore Standing; BUSA 1110, MGMT 2110, ACCT 2120, BLAW 2110, BUSA 2110 and ECON 2110 or ECON 2120 (Corequisite).

### **Marketing (MKTG)**

### **MKTG 1210 ADVERTISING (3)**

A survey of currently available advertising media. A psychological approach to consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures.

### **MKTG 2110 PRINCIPLES OF MARKETING (3)**

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include; the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers.

### **MKTG 2210 AGRICULTURAL MARKETING (3)**

This course explores the principles of marketing agricultural products and commodities. Instruction in the techniques of marketing services provided to agriculture related fields is also provided in this course.

Development, analysis and decision-making associated with marketing of agricultural products and services are studied.

### **BUS 100 PRINCIPLES OF KEYBOARDING (3)**

This course is recommended for students with no previous instruction in typing. Instruction includes alphabetic and numeric keyboard fingering, as well as the use of proofreading marks. Emphasis is placed on speed building using specialized computer software.

### **BUS 120 APPLIED BUSINESS ETHICS (3)**

This course will provide tools useful in thinking through the countless ethical dilemmas faced in the workplace. Through real-world business examples, students will evaluate ethical situations and express solutions.

### **BUS 212 ADVANCED KEYBOARDING (3)**

This course is recommended for students with previous typing experience. Students in this course will develop speed and accuracy as well as practice in the use of mailable business letters, advanced tables, business forms, reports and memorandums. Emphasis is placed on increasing speed and accuracy. Prerequisite: BUS 100

## **Chemistry (CHEM)**

### **CHEM 1215C GENERAL CHEMISTRY I LECTURE AND LABORATORY FOR STEM MAJORS (4)**

This course covers descriptive and theoretical chemistry. Prerequisite: MATH 101 or MATH 1130 with a grade of "C" or better, or an appropriate score on the Mathematics Placement Assessment Test. (Physics 1114 - Area III)

### **CHEM 1216 GENERAL CHEMISTRY (4)**

This course explores all the realms of basic chemistry. Students will examine and explore such topics as the periodic table, the structure of atoms and molecules, chemical properties, chemical reactions, chemical equations, bonding, chemical equilibrium and scientific laboratory procedures. Laboratory exercises are included. Prerequisite: MATH 101 or MATH 1130 with a grade of "C" or better, or an appropriate score on the Mathematics Placement Assessment Test. (CHEM 1114 - Area III)

### **CHEM 1225C GENERAL CHEMISTRY II**

## **LECTURE AND LABORATORY FOR STEM MAJORS (4)**

This course is a continuation of CHEM 111 and emphasizes the quantitative aspects of chemical behavior.

Completion of the two-course sequence fulfills the General Education requirement of the College of Arts and

Sciences. To succeed in this course, daily work on practice problems must be done. Exams will test both conceptual understanding as well as quantitative manipulations. Practice will build the required critical thinking and problem solving skills required on the exams. Prerequisite: CHEM 1215C with a grade of "C" or better, or consent of the instructor. (CHEM 1224 - Area III)

## **Communications**

### **COMM 1130 PUBLIC SPEAKING (3)**

This course introduces the theory and fundamental principles of public speaking, emphasizing audience analysis, reasoning, the use of evidence, and effective delivery. Students will study principles of communication theory and rhetoric and apply them in the analysis, preparation and presentation of speeches, including informative, persuasive, and impromptu speeches. (COMM1113 - Area I)

### **COMM 1150 INTRODUCTION TO MASS COMMUNICATION (3)**

This course introduces students to the history, models, theories, concepts, and terminology of mass communication, focusing on various media and professions. The course will enable students to develop media literacy skills to interpret mass communication and understand the effects of media on society and their lives.

### **COMM 2120 INTERPERSONAL COMMUNICATION (3)**

This course provides an introduction to the study of interpersonal communication. Students will examine the application of interpersonal communication in personal and professional relationships. (COMM1213 -

## **COM 134 INTRODUCTION TO**

### **JOURNALISM (3)**

This course is a practical introduction to journalism which emphasizes journalistic conventions as well as gathering and writing news for the print and broadcast media. Students will learn proven, as well as new, and less conventional, journalistic techniques and writing styles.

## **COM 190 INTERNSHIP IN**

### **JOURNALISM (3)**

This course offers three credits in a supervised work program. The first-year student is employed in an approved journalism occupation. Students will be supervised and rated by the instructor. Students will have one-on-one consultations with the instructor and/or employer.

## **Computer Information Systems**

### **CIS 100 COMPUTERS FOR BEGINNERS (3)**

Students who have never been exposed to a computer often choose this course. This course is designed to introduce students to the computer and to let them get comfortable with the equipment. Students learn the basics of Windows and keyboarding and are given a brief tour of word processing software. This course may be nontransferable.

### **CIS 104 INTRODUCTION TO THE INTERNET (4)**

This course will introduce students to the World Wide Web (www) and inform them of the advantages and disadvantages of accessing the Internet. Students will learn how to do searches on the web and how to use a browser. Finally, the students will be shown how to make their own home page. Out-of-class computer work is required.

### **CIS 106 BASIC PROGRAMMING (4)**

Students are provided with a comprehensive understanding of the Visual BASIC programming language as used with the microcomputer. Proficiency is developed as student's code, test, and debug several Visual BASIC programs in the interactive and batch

modes. In addition to learning graphics, students will deal with files and array processing. Out-of-class computer work is required. Prerequisite: BCIS 1115.

### **CIS 107 DATABASE APPLICATIONS (4)**

Students are provided with a working knowledge of a popular database package. They will learn to create a database, do sorts, and create reports. Students will also learn to create queries and to understand the techniques used in modifying the database. Out-of-class computer work is required.

### **CIS 120 COMPUTER FINANCE (4)**

Students are provided with a working knowledge of a popular financial packages. Students will learn to create accounts registers. Reporting techniques that add assist the student in tracking finances will be discussed. Students will learn how to use a financial package for both home and business. Out-of-class computer work is required.

### **CIS 121 METHODS OF GRAPHIC DESIGN (3)**

Students will gain a working knowledge of the elements and principles of two-dimensional (2-D) design with which to develop a vocabulary of design and visual thinking skills. The creation of art forms historical and contemporary, as well as technical approaches regarding material use and methods for thinking creatively will be explored.

### **CIS 123 DIGITAL MEDIA I (3)**

Students will learn the Macintosh operating system (Mac OS) and will learn and use the Adobe Bridge, Photoshop and Illustrator. Students will learn the Photoshop workspace and Photoshop basics that will include: making selections, painting and retouching as well as creating good images. Students will also learn Adobe Illustrator essentials such as vector shape creation, how to use layers, add color and work with the drawing tool. Students will gain an understanding of the contemporary graphic design industry and projects will be created by students to solve graphic design related problems using an understanding of the basic elements and principles of design.

### **CIS 125 INTRODUCTION TO ILLUSTRATOR (4)**

In this course the student will learn to apply the basics of print, multimedia, and online graphics. Students will learn

about how to design custom graphics. Students will learn multimedia concepts through hands on activities. Out-of-class computer work will be required. Student should have a basic knowledge of the Windows operating system.

### **CIS 129 MOODLE ORIENTATION (1)**

Students are provided with a working knowledge of the Web courses. Students in this class learn to utilize the terms used in Web course in order to allow successful completion of the Mesalands Community College Internet classes. Students also learn how to use the Web instruction to submit homework, use the class discussion board and send email within Web courses. Out-of-class computer work is required.

### **CIS 131 FUNDAMENTALS OF COMPUTERS (1)**

This course is designed to provide an introduction to computers and information processing for students desiring to learn what a computer is, how a computer functions, and how a computer is controlled. Word processing, spreadsheet, and presentations software are introduced. Out-of-class computer work is encouraged.

### **CIS 132 BASICS OF WINDOWS (1)**

This course provides a brief overview of the Windows operating system. Students will learn basic Windows commands which will enable them to maneuver easily within a Windows operating environment. This course is designed to provide students with basic knowledge, as well as hands-on experience to allow students to become computer literate in Windows.

### **CIS 135 BASICS OF INTERNET I (1)**

This course provides a basic overview of the Internet and the World Wide Web (WWW). Students will learn the basics of the Internet. The advantages and disadvantages of using the Internet for business and personal reasons will also be explored. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to become computer literate in using the Internet as a resource.

### **CIS 136 INTERNET BASICS II (1)**

This course provides a basic overview of the Internet and the World Wide Web (WWW). Students will gain additional insight on the workings of the Internet. This course is designed to provide students with basic

knowledge as well as hands-on experience to allow students to become computer literate in using the Internet as a resource. Prerequisite: CIS 135.

### **CIS 137 BASICS OF WORDPERFECT (1)**

This course provides a brief overview of the word processing application package, WordPerfect. Students will learn to create basic documents such as letters and memos. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to become computer literate in WordPerfect.

### **CIS 139 QUICKBOOKS PRO (1)**

This course is designed for students who are computer literate, but are not familiar with the proper business application of QuickBooks Pro. Students will be involved in activities that provide opportunity for the basic understanding and use of QuickBooks Pro. A sample business will be used as a demonstration model, and then students will input actual business data in all areas required to meet their business needs.

### **CIS 140 QUICKEN (1)**

This course provides a brief overview of the financial accounting application package, Quicken. Students will learn the basics of bookkeeping and financial reporting in a computerized environment. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to become computer literate in Quicken.

### **CIS 141 BASICS OF DATABASE (1)**

This course provides a brief overview of the database application package. Students will learn the basics of creating a database, performing sorts, and creating reports. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to become computer literate in database applications.

### **CIS 142 BASICS OF DESKTOP PUBLISHING (1)**

In this course, students will learn to use several of the leading desktop publishing software packages. Students will learn how to set up templates, do layouts and work with a variety of fonts and styles in order to prepare documents that are copy ready. Students will also learn to place graphics and wrap text around the graphics.



Out-of-class computer work may be required.

### **CIS 144 BASICS OF OUTLOOK (1)**

This course provides a brief overview of the Microsoft Outlook. Students will learn to work and manage with e-mail, work and manage calendar appointments, manage contacts, keep journal entries, and manage folders. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to become computer literate in Microsoft Outlook.

### **CIS 145 BASICS OF PHOTOSHOP (1)**

This course provides a brief overview of the Photoshop application. Students will learn to create and manipulate basic images. This course is designed to provide students with basic knowledge as well as hands-on experience to allow students to understand Photoshop's basic tools.

### **CIS 146 BASIC OF PAGEMAKER (1)**

In this course the student will learn the basic tools and uses of PageMaker. Creation of single page and multi-page documents, placement of art, type manipulation and the use of color will be addressed. Out-of-class computer work will be required.

### **CIS 147 BASICS OF COMPUTER DRAWING (1)**

In this course the student will learn to use FreeHand as a graphic image creation and manipulation tool. Students will learn about the various tools and features of FreeHand and how to create original artistic images using the computer with this software. Students will learn how to work with type and apply special effects to type. Out-of-class computer work will be required.

### **CIS 148 BASICS OF WEB DESIGN (1)**

In this course the student will learn the basics of Web design. The student will be given the terminology necessary to understand the components that make up an effective Web Site. Student examples give the student a real world look at Web Design.

### **CIS 150 INTRODUCTION TO DIGITAL PHOTOGRAPHY (3)**

In this course, the student will learn about the use of digital photographic equipment and its relationship to computer image manipulation.

Fundamental photographic techniques showing how to successfully capture images will be demonstrated and comparisons of different types of digital cameras and their unique nomenclature will be discussed.

### **CIS 153 DIGITAL MEDIA II (3)**

Students will continue to use the Macintosh Operating System in order to learn essential skills in Adobe InDesign such as using guides, character and paragraph styles, working with graphics and text as well as creating and using master pages in order to design documents that have a professional appearance. Students will also learn to create documents that are correctly preflighted and press-ready. Prerequisites: ARTS 1520 or CIS 123.

### **CIS 155 INTRODUCTION TO PHOTOSHOP (4)**

In this course the student will learn to use Photoshop as an image creation and manipulation tool. Students will learn about the Photoshop tools, menus and palettes and how to employ these features in the manipulation of images. Students will also learn how to create original artistic images using the computer with this software. Students will learn how to work with type and apply special effects to type. Out-of-class computer work will be required.

### **CIS 202 ADVANCED WORD PROCESSING (4)**

Students are provided with a working knowledge of a popular word processing package. Students will create documents and learn several techniques that can be used to enhance a document's appearance. A variety of applications will be taught to allow the students to get the most out of the word processor. Out-of-class computer work is required.

### **CIS 203 C PROGRAMMING (4)**

Students are introduced to the capabilities and potentials of the C language. C allows students to program a wide variety of tasks, since C can do both applications programming and system programming. Students will study the uses in the applications programming area. Out-of-class computer work is required. Prerequisite: CIS101

### **CIS 206 HISTORY OF VIDEO GAMES**

### **AND INTERACTIVE MEDIA (3)**

Students will investigate the medium of video games, the history of video games, the present industry landscape, and possible future developments in technology, design, industry organization and the cultural role of games. The central question that serves as a guideline throughout the course is the extent to which, and what, how we play says something about society.

### **CIS 210 GRAPHICS APPLICATIONS (4)**

Students are provided with a working knowledge of a graphics package. Students in this class learn to create a variety of charts and templates, and to develop slide shows. Students also learn how to import graphics and develop a presentation in a variety of styles. Out-of-class computer work is required.

### **CIS 212 GRAPHIC COMMUNICATION I (3)**

Students will learn to design and produce press-ready projects appropriate for a particular clientele. Students will learn to identify and design for a specific target market based on research done using demographics and by studying 'demo groups'. Students will complete projects making style and design decisions based on this research. Students will use the Macintosh operating system and any or all of the programs in the Adobe Creative Suite (Photoshop, Illustrator and InDesign) to complete projects. Prerequisite: ART/CIS 153

### **CIS 213 GRAPHIC COMMUNICATION II (3)**

Students will learn to design and produce a comprehensive 'brand identity' that will be used to complete several graphic applications to promote a solution to an issue of global importance. Students will learn to identify and understand cultural norms other than their own through research and study of other cultures. Students will also complete an extensive portfolio of their work in order to prepare for future employment or for continuing education. Students will use the Macintosh operating system and any or all of the programs in the Adobe Creative Suite (Photoshop, Illustrator and InDesign) to complete projects. Prerequisite: ART/CIS 212.

### **CIS 216 DIGITAL PHOTOGRAPHY AND THE**

#### **DIGITAL DARKROOM (3)**

Students will gain a working understanding of the equipment and materials used in digital photography, how to create digital images and how to 'develop' and print digital images. Students will also learn studio lighting techniques as well as how to shoot with ambient or available light. Students will learn how to 'see' better photographs in order to produce and print better photographs.

### **CIS 221 DATABASE PROGRAMMING (4)**

Students will learn to develop an application by using 4GL programming techniques. Students will develop forms, menus, and general applications that allow the use of the database tables in a simpler form. Out-of-class computer work is required. Prerequisite: CIS 107.

### **CIS 226 BASIC WEB DESIGN (3)**

Students will use the Macintosh computer to employ knowledge from previous courses in order to use the Adobe Bridge, Photoshop, and Illustrator to create graphics and images for web pages. Students will learn industry-standard web design software to set up a new web site, add text and images with CSS (cascading style sheets) and learn how to manage, optimize and maintain the site. Prerequisites: ART 103 and ART 135 or BCIS 1120 and CIS 135 (or instructor consent).

### **CIS 245 INTERMEDIATE PHOTOSHOP (4)**

In this course the student will learn to use the most recent version of Photoshop as an image creation and manipulation tool. Students will learn about images, how to manipulate images using Photoshop's special tools and palettes and how to create artistic images using the computer with this software. Students will learn how Photoshop has become a text creation and manipulation application as well. Creative techniques commonly used in the graphics industry will be practiced. Out-of-class computer work will be required.

### **CIS 250 COMPUTER AIDED DRAFTING**

(4)

Students will learn to design and produce a comprehensive 'brand identity' that will be used to complete several graphic applications to promote a solution to an issue of global importance. Students will learn to identify and understand cultural norms other than their own through research and study of other cultures. Students will also complete an extensive portfolio of their work in order to prepare for future employment or for continuing education. Students will use the Macintosh operating system and any or all of the programs in the Adobe Creative Suite (Photoshop, Illustrator and InDesign) to complete projects. Prerequisite: ART/CIS 212.

### **CIS 295 STUDENT PROJECT (4)**

Students will be assigned a task that will encompass all of the courses taken in their chosen course of study. The task will be determined by a CIS faculty member. Arrangements for this course must be made with the CIS faculty member prior to enrollment. Out-of-class computer work is required.

## **Computer Science**

### **CS 102 ANDROID MOBILE APP DEVELOPMENT (3)**

Students will be given overview of different mobile platforms and their development environments with a focus on android mobile applications. Design concepts, creation, and publication of mobile app applications will be stressed. Students will be given hands-on programming projects that will later be tested on Android devices.

### **CS 115 INTRODUCTION TO JAVASCRIPT (3)**

This course will provide a general introduction to JavaScript programming. This course will employ a hands-on approach for the beginning programmer to develop Web applications. Step-by-step approach using exercises that illustrate the concepts being explained.

### **CS 118 INTERNET PROGRAMMING (3)**

In this course, the student will learn the general concept of website design. Emphasis will be placed on web content management systems and web authoring. The student will be guided through using a step-by-step

approach with examples and detail instructions on each task to be completed. Student will design websites based on real world applications.

### **CS 140 INTRODUCTION TO COMPUTER FORENSICS (3)**

Introduction to Computer Forensics presents methods to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Students should have a working knowledge of hardware and operating systems to maximize their success on projects and exercises throughout the course.

### **CS 150 OPERATING SYSTEMS (3)**

Throughout this course the student will learn the general concept of operating systems, including how system-level software works with your computer hardware. Detail descriptions of individual operating systems--DOS, Windows and various configurations, MAC OS, and Unix will be covered throughout the course. The student will also learn how each of these systems works with specific hardware components.

### **CS 160 INTRODUCTION TO HTML (3)**

Throughout this course the student will learn the general concept of HTML, including how the software works with your computer hardware. Students will receive Web development techniques along with basic web design.

### **CS 165 IOS APPLICATION PROGRAMMING (3)**

Students will be given overview of the iOS mobile platform. Design concepts, creation, and publication of mobile app applications for iOS devices will be stressed. Understanding of current programming issues in the iOS environment will be stressed. Students will be given hands-on programming mobile application projects.

### **CS 170 INTRODUCTION TO TELECOMMUNICATIONS (3)**

Introduction to Telecommunications opens the doors to the world of telecom by presenting the first layer of the Open Standards Interconnection (OSI) model for communication networks—the physical layer. The program provides an historical perspective on communications technology, from smoke signals to the

latest wireless devices. Students learn the basics and the history of Data, Voice, and Video systems.

### **CS 171 INTRODUCTION TO NETWORK CABLING - FIBER (4)**

This course is designed to provide students with the knowledge and skills necessary to become entry-level technicians in the Network Cabling Industry. The focus of this course is on the following: basics of cable termination using two of the industry standards, (ST and SC connectors), testing and troubleshooting using sophisticated electronic equipment, perform a mechanical splice and the theory of fiber optics and calculate a system loss budget.

### **CS 172 INTRODUCTION TO NETWORK CABLING - COPPER (4)**

This course is designed to provide students with the knowledge and skills necessary to become entry-level technicians in the Network Cabling industry. The focus of the course is on the following: tool use and construction techniques; the characteristics of various industry standards; and troubleshooting and repair. This course has an accompanying Computer Enhanced Training (CET) CD-ROM that provides color images, videos, slide shows, and interactive “self-checking” for troubleshooting activities.

### **CS 180 INTRODUCTION TO GAME PROGRAMMING (4)**

In this course the student will learn to use basics of programming. Beginning game programming concepts will be introduced. Students will learn about how to create functional computer games. Students will learn programming and gaming concepts through hands on activities. Out-of-class computer work will be required.

### **CS 205 JAVA PROGRAMMING (4)**

Throughout this course the student will learn the general concept of Java programming. The student will be guided as a beginning programmer in developing applications and applets using the Java programming language. A step-by-step approach will be used in exercises that illustrate the concepts being explained, reinforcing the students' understanding and retention of the material.

### **CS 210 NETWORK SECURITY (3)**

Throughout this course the student will learn the general

concepts and importance of network security. The course uses hand-on projects, case projects, and lectures to provide the student with the necessary information to develop a network security plan that can be used in a real-world environment.

### **CS 215 JAVA SCRIPT (3)**

Throughout this course the student will learn the general concept of JavaScript programming. This course is designed to provide a guide for the beginning programmer to develop Web applications. A step-by-step approach using exercises that illustrate the concepts being explained, reinforcing understanding and retention of the materials presented.

### **CS 216 WEB PROGRAMMING (3)**

In this course, the student will learn the general concept of Web programming. The student will be guided through using a step-by-step approach with examples and detail instructions on each task to be completed. Student examples give the student a real world look at Web programming.

### **CS 217 ACTIVE DIRECTORY (3)**

This course prepares a network professional to work in medium to very large computing environments that use the Windows network operating system. With the increased demand for network professionals who can design flexible, usable directory service implementations that can properly advertise and support all necessary network services, as well as the users and groups who make use of them.

### **CS 220 CISCO NETWORKING (3)**

Throughout this course the student will learn the general concept of Cisco networking. The student will be guided through using a step-by-step approach with examples and detail instructions on each task to be completed. Student examples give the student a real world look at Cisco networking used in LANs and WANs routing and switching.

### **CS 225 WEB SITE DESIGN (3)**

Throughout this course the student will learn the general concept of Web Site Design. The student will be guided through a step-by-step approach with examples and detailed instructions on each task to be completed. Student examples give the student a real-world look at Web Site design..



## **CS 230 INTRODUCTION TO TCP/IP**

**(3)**

Throughout this course the student will learn the general concept of TCP/IP protocol. The student will be guided through using a step-by-step approach with examples and detail instructions on each task to be completed. Student examples give the student a real world look at TCP/IP communication architecture used in LANs and WANs on which they are implemented. Prerequisite: CS 150.

## **CS 231 INTRODUCTION TO PROXY SERVER (3)**

Throughout this course the student will learn the general concept of Proxy Server. The student will receive extensive working knowledge of the Microsoft Proxy Server product and prepare the student to take the MACE Certification test for Proxy Server. The course uses hands-on projects, case projects, and lectures to provide the student with the necessary information to pass the test and work with Proxy Server in the real-world environment.

## **CS 234 INTRODUCTION TO CLOUD COMPUTING (3)**

In this course, the student will learn the general concept of Cloud Computing. Emphasis will be placed on web content management systems and web authoring. The student will be guided through using a step-by-step approach with examples and detail instructions on each task to be completed. Student will design websites based on real world applications.

## **CS 235 DATABASE WEB DESIGN (3)**

Throughout this course the student will learn the general concept of Database driven Web Design. This course enables individuals to create Web sites that can display, insert, update, and delete data from a database. It provides foundational material on Web concepts, relational database principles, SQL, and HTML. Prerequisite: CS 225.

## **CS 240 INTRODUCTION TO SUPPORT SERVICES (4)**

This course is designed to provide an introduction to computer support services for students desiring to learn what is necessary to provide user support. Students will learn the importance of needs

assessment, training users, and troubleshooting. Students are also introduced to computer-related occupations and learn the importance of computer support and how to apply to the solution of business and related problems in a modern society.

## **CS 245 SYSTEMS ANALYSIS AND DESIGN (4)**

This course is designed to provide the tools necessary to design and implement computer systems. Students will learn the importance of System Development Life Cycle, Program Life Cycle, and analysis of designs. Students are also introduced to computer-related occupations and learn the importance of network and how to apply to the solution of business and related problems in a modern society. Prerequisite: BCIS 1115.

## **CS 246 INTRODUCTION TO NETWORKING (4)**

This course is designed to provide the tools necessary to design and implement computer systems. Students will learn the importance of System Development Life Cycle, Program Life Cycle, and analysis of designs. Students are also introduced to computer-related occupations and learn the importance of network and how to apply to the solution of business and related problems in a modern society.

## **CS 247 INTRODUCTION TO COMPUTER MAINTENANCE (4)**

Throughout this course the student will begin to learn the technical skills necessary to become an A+ certified technician. These skills will be learned through a series of hands-on lab exercises and review questions designed to teach and improve the PC configuration and troubleshooting skills which are necessary to function as a PC support or help desk technician.

## **CS 256 NETWORKING II (4)**

This course is a continuation of CS 246. The use of hands-on approach and its orientation to real-world situations and problem solving allows students to expand their knowledge of networking. Windows and Novell are the operating systems that will be used throughout the course. Prerequisite: CS 246.

## **CS 257 COMPUTER MAINTENANCE II (4)**

This course is a continuation of CS 247. Throughout this course the student will continue to learn all of the technical skills necessary to become an A+ certified technician.

These skills will be learned through a series of hands-on lab exercises and review questions designed to teach and improve the PC configuration and troubleshooting skills which are necessary to function as a PC support or help desk technician. Prerequisite: CS 247.

## **CS 265 INTRODUCTION TO 3D MODELING (4)**

Throughout this course the student will learn the general concept of 3D solid modeling using SolidWorks. Students will receive an overview of SolidWorks commands, techniques associated with 3D solid modeling. This course will include modeling of mechanical component parts to apply commands and concepts. The processes learned will include part model creation, assembly model creation, part drawing documents, and other modeling features and commands related to 3-D solid modeling. The student will be guided through using a step-by-step approach with examples and detailed instructions on each task to be completed.

## **CS 270 COMPUTER 3-D ANIMATION (0)**

Throughout this course the student will learn the general concept of 3D animation and design. The student will be guided through using a step-by-step approach with examples and detailed instructions on each task to be completed.

## **CS 282 INTRODUCTION TO MULTIMEDIA (4)**

In this course the student will learn to use the basics of page layout, vector graphics, photo editing, document management, web design, animation, and file management. Students will learn about how to create custom graphics. Students will learn multimedia concepts through hands on activities. Out-of-class computer work will be required.

## **CS 290 INTERNSHIP IN APPLIED COMPUTER SCIENCE (3)**

This course offers 3 credits in a supervised work program. The first-year student is employed in an approved computer occupation. Students will be supervised and rated by the employer and instructor. Students will meet in a weekly class and/or report on a variety of films, readings, or seminars. Prerequisite: Consent of the instructor.

## **CS 295 STUDENT PROJECT (4)**

Students will be assigned a task that will encompass all of the courses taken in their chosen course of study. The task will be determined by a CS faculty member. Arrangements for this course must be made with the CS faculty member prior to enrollment. Out-of-class computer work is required. Requirement: Must be taken in a student's final semester.

## **Criminal Justice (CJUS)**

### **CJUS 1110 INTRODUCTION TO CRIMINAL JUSTICE (3)**

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

### **CJUS 1510 HANDGUN TRAINING (1)**

The Handgun Training course is designed to prepare students to obtain a license to carry a concealed handgun.

This course covers the safe handling and storage of handguns, as well as strategies for home and personal safety. This training course incorporates classroom instruction with the live firing of a handgun as required by the New Mexico statutory course requirements.

### **CJUS 2140 CRIMINAL INVESTIGATIONS (3)**

This course introduces criminal investigations within the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures, which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced.

### **CJUS 1120 CRIMINAL LAW (3)**

This course covers basic principles of substantive criminal law including elements of crimes against

persons,  
property, public order, public morality, defenses to  
crimes, and parties to crime. Prerequisite: CJUS 1110.

## **Defensive Driving**

### **TDC 114 DEFENSIVE DRIVING (.5)**

This course focuses on collision prevention through hazard recognition and application of collision-avoidance techniques. In addition, the course addresses common driving violations that result in collisions and how to change driving habits to eliminate moving violations. Throughout the course, participants learn how to recognize both potential and immediate hazards, how to avoid collisions in a variety of driving conditions and how to choose safe and legal driving behaviors. The emphasis is on identifying and choosing safe and legal behind-the-wheel behaviors and actions.

## **Diesel Technology**

### **DMT 151 SHOP ESSENTIALS (2)**

This course is a comprehensive study of Basic Shop Safety. Topics include the study of Personal Safety, Work Area Safety, Shop Tool Safety, Hazardous Materials, Handling of Hazardous Waste, Shop Records, Hand Tools, Power Tools, Measuring Tools, Manufacturers' Service Publications and Fasteners. This will be a Corequisite course for any new incoming students taking any Diesel courses.

### **DMT 155 ENGINE FUNDAMENTALS**

**(3)**

This course is a comprehensive study of engine fundamentals. Topics include the study of engine terminology, the four-stroke cycle, the two-stroke cycle, the Otto cycle, engine systems and circuits, A history of the modern Diesel engine, definitions and formulas common to the reciprocating engine, power calculations, and assessment of needed power for specific applications.

### **DMT 156 DIESEL ENGINE REBUILD**

**(3)**

This course is a comprehensive study of diesel engine rebuild. Topics include the study of engine power train components, engine feedback assembly, engine housing components, engine lubrication systems, engine cooling

systems, engine breathing, engine retarders, engine removal, disassembly, cleaning, inspection and reassembly guidelines. Students will become familiar with the different features of Detroit, Cummins, and Caterpillar engines.

### **DMT 157 HYDRAULIC FUNDAMENTALS**

**(3)**

This course is a comprehensive study of Hydraulic Fundamentals. Topics include the study of hydraulic reservoirs, lines, fittings, and couplers, seals, fluids and filters, pumps, valves, cylinders, motors, accessories, hydraulic circuits, diagrams and symbols, general and preventative maintenance, diagnosis and testing.

### **DMT 165 MECHANICAL FUEL SYSTEMS**

**(3)**

This course is a comprehensive study of mechanical fuel Systems. Topics include the study of chemistry and combustion, diesel fuel systems, hydro mechanical injection principles, hydraulic injector nozzles, port-helix metering injection pumps, detroit diesel mechanical unit injection, caterpillar mechanical unit injection, Cummins PT, rotary distributor pumps, governors, alternate fuels, failure analysis, troubleshooting and diagnoses strategies.

### **DMT 166 ELECTRICITY FUNDAMENTALS**

**(3)**

This course is a comprehensive study of Electricity Fundamentals. Topics include the study of Atomic Structure and Electron Movement, Conductors and Insulators, Current Flow, Magnetism, Electromagnetism, Electrical Current Characteristics and Sources of Electricity, Electrical Circuits and Ohm's Law, Capacitance, Coils, Transformers and Solenoids, Semiconductors, Diodes, Transistors, Testing Semiconductors, Photonic Devices, Using Electronic Signals, Battery Operating Principles, and Battery Ratings.

### **DMT 167 DIESEL ELECTRONICS (3)**

This course is a comprehensive study of Electronic Fuel Systems. Topics include the study of Bosch Electronic Distributor and Common Rail Systems, Mack Trucks and V-MAC , Detroit Diesel Electronic Controls (DDEC) Caterpillar ADEM and Volvo VECTRO EUI Systems, Cummins CELECT, Bosch EUP on V-MAC III-E-Tech and Mercedes-Benz, Caterpillar and International Trucks

HEUI, Cummins HPI-TP, Cummins Accumulator Pump System and Emissions.

### **DMT 168 APPLIED DIESEL ELECTRICITY AND ELECTRONICS (3)**

Lab experiences in Applied Diesel Electricity and Electronics correspond to material covered in DMT 166 and DMT 167. This course includes analysis and repair of areas and systems and involves use of proper methods, tools, specifications and equipment covered in DMT 166. And this course also includes the proper use of tools, scanners, and other equipment to diagnose the computers, sensors and actuators, along with the repair and adjustment of the computerized, fuel, timing, and emission systems.

### **DMT 169 ELECTRONIC FUEL SYSTEMS (3)**

This course is a comprehensive study of Electronic Fuel Systems. Topics include the study of Bosch Electronic Distributor and Common Rail Systems, Mack Trucks and V-MAC, Detroit Diesel Electronic Controls (DDEC) Caterpillar ADEM and Volvo VECTRO EUI Systems, Cummins CELECT, Bosch EUP on V-MAC III-E-Tech and Mercedes-Benz, Caterpillar and International Trucks HEUI, Cummins HPI-TP, Cummins Accumulator Pump System and Emissions.

### **DMT 190 INTERNSHIP IN DIESEL TECHNOLOGY (3)**

Students in this course receive on-the-job experience in a dealership, national chain service facility or independent repair facility under the direct supervision of the program instructor. Students utilize the skills and knowledge acquired in the previous year. Students will be able to base future employment decisions on the experience received. Note: Students who complete two full semesters of automotive courses and are not employed, may sign up for this course and take it as a Capstone Lab or a combination of each.

### **DMT 275 HYDRAULIC BRAKE SYSTEMS (3)**

This course is a comprehensive study of Hydraulic Brake Systems. Topics include the study of hydraulic brake fluid, air-over-hydraulic brake systems, hydraulic brake service procedures, hydraulic antilock braking systems, and hydraulic brake system components; master cylinders, hydraulic drum brakes, servo and non-servo types.

### **DMT 276 AIR BRAKE SYSTEMS (3)**

This course is a comprehensive study of Air Brake Systems. Topics include the study of air supply circuit, primary circuit, secondary circuit, dash control and the parking/emergency circuit, trailer circuit, foundation brakes, air brake system components, brake system balance, maintenance and safety, assessment, adjustment, troubleshooting brake systems, and brake certification, inspection, and testing.

### **DMT 277 SUSPENSION SYSTEMS (3)**

This course is a comprehensive study of Suspension Systems. Topics include the study of leaf spring-type suspensions, equalizing beam suspensions, torsion bar suspensions, air spring suspensions, spring suspension system servicing, equalizer beam suspension system servicing, air suspension system servicing, suspension alignment, cab air suspensions, driver air suspended seats, and ride analysis.

### **DMT 278 PREVENTATIVE MAINTENANCE (3)**

This course is a comprehensive study of Preventative Maintenance. Topics include the study of setting up a preventative maintenance program, out-of-service or deadlining a vehicle, preventive maintenance scheduling and record-keeping that conforms to federal inspection regulations, lubricants for the engine, transmission, axle, chassis, trailer, and winterizing.

### **DMT 280 HEATING AND AIR CONDITIONING (3)**

This course is a comprehensive study of Heating and Air conditioning. Topics include the study of basic principles of refrigeration, refrigerant, the refrigeration cycle, air conditioning systems components, safety precautions, performance testing and equipment for A/C system, A/C service procedures, common A/C problems, cab ventilating and heating systems, liquid cooled heating system, and electronically managed climate control.

### **DMT 285 DIESEL PERFORMANCE AND DIAGNOSTICS (3)**

This course is a comprehensive study of Diesel Performance and Diagnostics. This is a course designed to expose students to a variety of service and repair procedures that represents work typically found in today's service centers. A strong emphasis will be placed on diagnostic and troubleshooting procedures.

### **DMT 286 MANUAL TRANSMISSIONS**



(3)

This course is a comprehensive study of Manual Transmissions. Topics include the study of standard transmissions, gearing, gears, gear train configurations, shift mechanism, lever components, countershaft transmissions, transfer cases, power takeoff unit, transmission servicing, lubrication, PM inspections, removal, overhaul, air shift system, clutches, function, basic components, troubleshooting, maintenance and servicing.

### **DMT 290 INTERNSHIP IN APPLIED DIESEL TECHNOLOGY (3)**

DMT 290 is a continuation of DMT 190 Internship in Diesel Technology. This course provides students with additional hands-on experience under the direction of the program instructor. Prerequisite: DMT 190

## **Education**

### **Early Childhood Education (ECED)**

#### **ECED 1110 CHILD GROWTH DEVELOPMENT, AND LEARNING (3)**

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

#### **ECED 1115 HEALTH, SAFETY, AND NUTRITION (2)**

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

### **ECED 1120 GUIDING YOUNG**

#### **CHILDREN (3)**

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented. Emphasis is placed on helping children become self-responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

#### **ECED 1125 ASSESSMENT OF CHILDREN AND EVALUATION OF PROGRAMS (3)**

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process.

#### **ECED 1130 FAMILY AND COMMUNITY COLLABORATION (3)**

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. Families' goals and desires for their children will be supported through culturally responsive strategies.

#### **ECED 2110 PROFESSIONALISM (2)**

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

### **ECED 2115 INTRODUCTION TO LANGUAGE, LITERACY, AND LITERACY (3)**

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. . This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

### **ECED 2120 CURRICULUM DEVELOPMENT THROUGH PLAY BIRTH THROUGH AGE 4 (PREK) (3)**

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized.

### **ECED 2121 CURRICULUM DEVELOPMENT THROUGH PLAY BIRTH THROUGH AGE 4 (PREK) PRACTICUM (2)**

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social

skills, and adaptive learning for children, birth through age four, is emphasized

### **ECED 2130 CURRICULUM DEVELOPMENT AND IMPLEMENTATION AGE 3 (PREK) THROUGH GRADE 3 (3)**

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized.

Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included.

### **ECED 2131 CURRICULUM DEVELOPMENT AND IMPLEMENTATION AGE 3 (PREK) THROUGH GRADE 3 PRACTICUM (2)**

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation:

Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content

areas to meet the needs of children with special needs and the development of IEPs is included.

### **Education (EDUC)**

### **EDUC 1120 INTRODUCTION TO EDUCATION (3)**

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education.

## **EDUC 1190 INTRODUCTION TO EDUCATION PRACTICUM**

**(3)**

Applies understanding of the field of teacher education in a field-based 45-hour practicum in a K-12 schoolbased setting in general or special education. Students will observe and apply understanding of educational theory to classroom practice. Students must successfully pass a background check to complete the course requirements.

## **EDUC 2110 FOUNDATIONS OF EDUCATION (3)**

This course is designed to assist future teachers in gaining an understanding of the purposes and framework of schools. Topics covered in this course include, but are not limited to ethics, legal issues, and leadership relative to education. The dynamic role of teachers is also explored.

## **EDUC 2320 EDUCATIONAL COMMUNITY (3)**

This course is designed to prepare future teachers with the necessary classroom management skills needed for student success by providing instruction on classroom processes, techniques, and procedures. Systematic motivational strategies for a diverse student body are covered. The impact on student learning due to emotional, social, physical, and cognitive development from birth through adolescence is explored. Also covered are educational strategies to assist students with exceptional needs.

## **EDUC 2325 STUDENT OUTCOMES ASSESSMENT (3)**

This course is designed to help future teachers plan and prepare effective instruction based on measurable and useful assessments. The assessments will fulfill district and state standards while meeting the needs of students.

Instruction on the use of assessment data to assist teachers in designing curriculum and improving teaching methodologies is also covered. This course also provides instruction on teaching reading and diagnosing reading skills at the elementary and secondary levels.

## **EDUC 2330 THE EFFECTIVE CLASSROOM (3)**

This course is designed to prepare future teachers with the necessary classroom management skills needed for student success by providing instruction on classroom processes, techniques, and procedures. Systematic motivational strategies for a diverse student body are covered. The impact on student learning due to emotional, social, physical, and cognitive development from birth through adolescence is explored. Also covered are educational strategies to assist students with exceptional needs.

## **EDUC 2335 READING ASSESSMENT (3)**

This course is designed to address the requirements of Public Schools Act, 2001 N.M. Laws Ch. 261, amending §22-2-8.7 N.M.S.A. 1978 and 2001 N.M. Laws Ch. 299, amending §22-2-2 N.M.S.A. 1978. The intent of this course is to prepare future teachers to recognize and assess reading difficulties across content areas. Topics covered in this course include, word identification skills and strategies, reading comprehension skills, and vocabulary skills

## **EDUC 2340 MULTICULTURAL EDUCATION (3)**

This course offers a study of educational trends, issues, and teaching methods and strategies necessary to teach respect and tolerance in diverse settings.

## **English (ENGL)**

### **ENGL 1110 COMPOSITION I (3)**

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. Prerequisite: ENG 100 or appropriate score on the

### **ENGL 1120 COMPOSITION II (3)**

In this course, students will explore argument in multiple genres. Research and writing practices emphasize summary, analysis, evaluation, and integration of secondary sources. Students will analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading, writing, and research. Students will sharpen their understanding of how writing and other modes of com. Prerequisite: ENGL 1110. (ENGL 1123 - Area I)

### **ENGL 1410 INTRODUCTION TO LITERATURE (3)**

In this course, students will examine a variety of literary genres, including fiction, poetry, and drama. Students will identify common literary elements in each genre, understanding how specific elements influence meaning. For English majors and non-majors. (ENGL 2213 - Area V)

### **ENGL 2120 INTERMEDIATE COMPOSITION (3)**

This course builds upon and refines the writing skills acquired in previous writing courses, with a focus on nonfiction prose. Research, composition, exposition and presentation abilities will be practiced and developed. Through analysis and revision, students will develop strategies to improve the versatility and impact of their writing. Course topics and emphases may vary by section.

### **ENGL 2130 ADVANCED COMPOSITION(3)**

This course is for students who are striving for fluency, maturity, clarity and significance in their writing. It is an intermediate writing course that builds on and refines writing skills acquired in previous courses. It focuses on non-fiction writing for the professions, business, science, technical fields, academe and/or the popular press. Short works of master writers are studied for ideas, style and structure. Prerequisite: ENGL 1120.

### **ENGL 2210 PROFESSIONAL AND TECHNICAL COMMUNICATION (3)**

Professional and Technical Communication will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of

audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience. Prerequisite: ENGL 1110. (ENGL 2113 - Area I)

### **ENGL 2310 INTRODUCTION TO CREATIVE WRITING (3)**

This course will introduce students to the basic elements of creative writing, including short fiction, poetry, and creative nonfiction. Students will read and study published works as models, but the focus of this “workshop” course is on students revising and reflecting on their own writing. Throughout this course, students will be expected to read poetry, fiction, and non-fiction closely, and analyze the craft features employed. They will be expected to write frequently in each of these genres.

### **ENGL 2350 INTRODUCTION TO DRAMA (3)**

This course introduces students to drama as a literary form. Students will identify elements of the dramatic form, examining how the choices made by the playwright, director, actors, set designer, costume designer, and even the audience influence the performance. Students will also examine different types of plays, such as comedy, historical, and tragedy, and the influence of the historical, social, and political setting.

### **ENGL 2360 INTRODUCTION TO POETRY (3)**

This course is an introduction to reading and thinking about poetry. This course will involve the reading and analysis of poems from a variety of eras. By examining poetic features of tone, speaker, situation, setting, language, sounds, internal structure, and external form, students will build a foundation for complex critical thinking about what poems can do. All poems are born out of particular literary and cultural contexts, which will also be discussed as part of this course’s inquiries into the nature of poetry and poetic form.

### **ENGL 2370 INTRODUCTION TO THE NOVEL (3)**

This course is an introduction to the study of long



fiction, such as novels and novellas, focusing on the use of critical approaches to analyze the ways that narrative is created. Students will read and analyze a diverse range of texts that may include varying time periods, nationalities, regions, genders, and ethnicity.

### **ENGL 2380 INTRODUCTION TO SHORT FICTION (3)**

This course is an introduction to the study of short fiction, focusing on the use of critical approaches to analyze the ways that narrative is created. Students will read and analyze a diverse range of texts that may include varying time periods, nationalities, regions, genders, and ethnicity.

### **ENGL 2520 FILM AS LITERATURE (3)**

This is an introductory film class involving analysis, discussion and writing about films. Emphasis is placed on the relationship between films and the literary works from which they are made. Students explore the literary, cultural and technical influences of film. The course provides students with an opportunity to view and critique selected films with attention to composition and final impact.

### **ENGL 2550 INTRODUCTION TO SOUTHWEST LITERATURE**

**(3)**

New Mexico and the greater Southwest has long been a contested region. Through novels, poetry, and drama, the course focuses on the social, historical, and political issues that create complex portrayals of the beauty, borders, and violence that give the Southwest such a unique history. By the end of the course, students will have a broader appreciation for the many voices that make up literature from the American Southwest. (ENG 2713 - Area V).

### **ENGL 2580 SCIENCE FICTION (3)**

Close reading and analysis of major science fiction works. Explores science fiction as cultural metaphor and modern myth. Prerequisite: ENGL 1110.

### **ENGL 2610 AMERICAN LITERATURE I (3)**

This course surveys American literature from the colonial period to the mid-nineteenth century. This course provides students with the contexts

and documents necessary to understand the origins of American Literature and the aesthetic, cultural, and ideological debates central to early American culture.

### **ENGL 2630 BRITISH LITERATURE I (3)**

This course offers a study of British literature from its origins in Old English to the 18th century. This survey covers specific literary works—essays, short stories, novels, poems, and plays—as well as the social, cultural, and intellectual currents that influenced the literature. (ENGL 2413 - Area V)

### **ENGL 2650 WORLD LITERATURE I (3)**

In this course, students will read representative world masterpieces from ancient, medieval, and Renaissance literature. Students will broaden their understanding of literature and their knowledge of other cultures through exploration of how literature represents individuals, ideas and customs of world cultures. The course focuses strongly on examining the ways literature and culture intersect and define each other.

### **ENGL 2680 WOMEN'S LITERATURE (3)**

Surveys women writers from the English-speaking tradition. Includes various genres that represent the diversity of women's experiences.

### **ENGL 2993 WRITING WORKSHOP(1-3 CR)**

Various topics are presented as announced in the current course schedule. The course may be repeated for credit under different subtitles. Topics may include workshops in creative writing (fiction, poetry or drama), preparation for publication, or grammar, syntax and diagramming. Specific topics will be announced in the current course schedule.

### **ENGL 2994 EXPERIENTIAL LEARNING PORTFOLIO (3)**

The primary objective of the course is to identify, articulate, and document Experiential learning experiences in the form of a portfolio that can be evaluated for possible college credit towards a degree. Students may be granted credit for Work experience, and coursework or training completed outside the traditional College setting, so long as such work or experience covers similar material and concepts.

### **ENGL 2996 TOPICS IN ENGLISH (1-3)**

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles..

### **ENGL 2997 INDEPENDENT STUDY IN ENGLISH (3)**

This course provides the student an opportunity to pursue an independent study or research project concerning a topic of interest. The topic will be chosen by the student in consultation with a faculty member. Subjects that could be covered by an independent study can either be extensions of topics covered by other classes or include subjects that are not covered by the current curriculum. Prerequisites: ENGL 1110 and ENGL 1120 and consent of instructor. can either be extensions of topics covered by other classes or include subjects that are not covered by the current curriculum. Prerequisites: ENGL 1110 and ENGL 1120 and consent of instructor.

### **ENGL 2998 INTERNSHIP IN ENGLISH (6)**

This course provides the second-year student an opportunity to gain practical experience doing supervised writing for a word-oriented operation. Possible locations for writing internships could include a newspaper office, a radio station, a print shop, an advertising agency, a museum, federal and state agencies, or private companies. Students will identify learning objectives at the beginning of the internship to be evaluated at the end of the semester. Prerequisites: ENGL 1110 and ENGL 1120 and consent of instructor.

### **ENGL 2999 CAPSTONE PORTFOLIO COURSE (1)**

This capstone course will utilize the college's rubrics to assess the general education competency (writing, oral communication, information technology, critical thinking, scientific and mathematical reasoning) attainment using student artifacts. A portfolio reflecting best practices will be submitted to a faculty committee for review and evaluation. This course must be completed during the student's last semester prior to graduation.

### **ENG 105 WRITING IN THE WORKPLACE (1)**

This course prepares students from all disciplines to be effective communicators in their chosen professions. Students learn to write and prepare documents, including memos, letters, and recommendations. Revision strategies will be addressed to assure accurate deliverables in the workplace. The class will focus on modern communicative needs required by the extensive use of technology in the workplace. Prerequisite: English 102 is strongly recommended.

### **ENG 201 TYPES OF LITERATURE (3)**

This course is an introduction to one of six literary genres. Subtitles may vary by semesters. The class will focus on either A. Short Story, B. Novel, C. Drama, D. Poetry, E. Science Fiction or F. Wild, Wild, West. The course may be repeated for credit under different subtitles announced in the current course schedule.

### **ENG 201F TYPES OF LITERATURE: THE WILD, WILD WEST (3)**

An introduction to the literature, history, and myth of the American frontier. Beginning around the time of the Civil War, the American West became a symbol of freedom and adventure. From early 'dime' novels that glorified the deeds of gunslingers and desperados to modern western books and movies, we will look at the romanticized image of the West as compared to the often harsh reality. Topics will include cultural encounters between Native Americans and settlers, life on the frontier, the impact of the railroads, the role of the West in creating American characters and icons, and, of course, lawmen and gunfighters, outlaws and gamblers, saloon gals and trail hands, and the bad men of the Badlands.

### **ENG 268A WORKSHOP IN ENGLISH: GRANT WRITING (3)**

Various topics are presented as announced in the current course schedule. The course may be repeated for credit under different subtitles. Topics may include workshops in creative writing (fiction, poetry or drama), preparation for publication, or grammar, syntax and diagramming. Specific topics will be announced in the current course schedule.

### **ENG 268B WORKSHOP IN ENGLISH: CREATIVE WRITING (3)**

Various topics are presented as announced in the current course schedule. The course may be repeated for credit under different subtitles. Topics may include workshops in creative writing (fiction, poetry or drama), preparation for publication, or grammar, syntax and diagramming. Specific topics will be announced in the current course schedule.

### **ENG 268C WORKSHOP IN ENGLISH: PORTFOLIO DESIGN (3)**

Topics may include workshops in creative writing (fiction, poetry or drama), preparation for publication, or grammar, syntax and diagramming. Specific topics will be announced in the current course schedule.

The course may be repeated for credit under different subtitles. Prerequisite: ENG102.

### **ESL 099 BEGINNING ENGLISH AS A SECOND LANGUAGE (3)**

This course is a beginning level course designed to develop good listening skills and standard pronunciation of English. This course is intended for students whose first language is not English. Beginning English as a Second Language is a prerequisite to ESL 100, Intermediate English as a Second Language.

### **ESL 100 INTERMEDIATE ENGLISH AS A SECOND LANGUAGE (3)**

Intermediate English as a Second Language is specifically for students whose predominant language is not English. This course is designed to develop greater English communication and grammar skills, including listening, speaking, reading, and writing. Prerequisite: ESL 099.

## **Farrier Science (FASC)**

### **FASC 1110 HORSESHOEING THEORY I (3)**

This course is classroom oriented and designed to present the principles of horseshoeing. A variety of horseshoeing principles are studied (hoof balance, foot biomechanics, and physiological shoeing), as well as gaits of horses. A study of types and uses of horses is also reviewed. It is recommended that FASC 1110 be taken concurrently with ANSC 1510.

### **FASC 1120 HORSESHOEING THEORY II (3)**

This course is designed to present more advanced principles of horseshoeing. Shoeing to change gait faults and the principles of functional hoof balance are covered. Specialty shoeing needs of horses are also presented along with the principles of shoeing various types and uses of horses. Prerequisite: FASC 1110.

### **FASC 1210L HORSESHOEING LABORATORY I (3)**

This course presents the principles and techniques of shoeing sound horses. From trimming feet to shaping

shoes to nailing shoes on, students gain experience by working on horses. This laboratory-oriented class takes a field approach with students trimming and shoeing horses at the college and at local ranches. It is recommended that this course be taken concurrently with FASC 1110.

### **FASC 1220L HORSESHOEING LAB II (3)**

This course covers advanced horseshoeing principles and techniques. Shoeing to correct conformational and gait faults is practiced and learned through hands-on experience. Assessment of horses in various gaits and shoeing to change functional hoof balance are addressed. It is recommended that this course be taken concurrently with FASC 1120. Prerequisite: FASC 1210L.

### **FASC 1310L BLACKSMITHING I (3)**

This course presents to student's concepts, skills and techniques utilized in blacksmithing and forging. Techniques in forging tools and horseshoes with several toe and heel modifications are addressed in this laboratory-oriented class. Students will gain hands-on experience in this course as they learn the art of shaping shoes.

### **FASC 1320L BLACKSMITHING II (3)**

This course presents advanced principles and techniques used in blacksmithing. Students forge a variety of projects to learn and enhance blacksmithing skills. The projects involve several advanced techniques that should help students forge tools, shoes, and specialty projects. These techniques are used to forge a variety of specialty shoes for horses. Prerequisite: FASC 1310L.

### **FASC 1710L SPECIALTY HORSESHOEING (3)**

This course is designed for students who are certificate seeking and do not wish to enroll in general education courses. This course will provide additional experience in horseshoeing through hands-on learning. This is a laboratory-oriented course providing students with additional time to practice their horseshoeing skills. Some forging techniques will be utilized in this course.

### **FASC 1996L SPECIAL TOPICS IN FARRIER SCIENCE (3)**

This is an advanced special topics course for students who desire to gain additional laboratory time. This is a laboratory-oriented course allowing students extra time to practice techniques and build their skills in

horseshoeing. Horses will be worked on as available and some forging techniques will be utilized.

### **FASC 1998 INTERNSHIP IN FARRIER SCIENCE I(3)**

This course is designed to provide on-the-job work experience. Students gain this experience by working under the direct supervision of a practicing Farrier. Exposure to technical skills, business management, and customer relations are realized in this course. The applied internship can be done Fall or Spring semester or during the Summer session.

### **FASC 2000 CERTIFICATION PREPARATION (2)**

This course is designed to help students prepare for certification examinations of national associations. The written, forging and shoeing exams at each level will be covered according to the level the students are preparing for. This course will utilize both lecture and field approaches to preparation. Both full-time Farrier students and farriers in business would benefit from this course.

### **FASC 2230L FARRIER SCIENCE THERAPEUTICS (3)**

This laboratory-oriented course is designed to provide students with the knowledge, skills, and techniques of trimming and shoeing horses with common pathological conditions, including laminitis and navicular syndrome. The assessment of lame horses and application of therapeutic shoes will be discussed, demonstrated, and practiced. It is recommended that this course be taken concurrently with FASC 2330L. Prerequisite: FASC 1210L.

### **FASC 2330L FARRIER CRAFTSMANSHIP THERAPEUTICS (3)**

This laboratory-oriented course is designed to instruct students in the craftsmanship of forging therapeutic and pathological horseshoes for common lameness. From measuring the feet to choosing the material for construction in building the shoes, students will practice the processes used to make therapeutic horseshoes. This course should be taken concurrently with FASC 2230L. Prerequisite: FASC 1310L.

### **FASC 2530 LAMENESS PHYSIOLOGY (3)**

This course is designed to present a comprehensive

approach to biomechanics, pathology, and common lameness of horses. Emphasis is placed on the limb, leg and foot. Dissections of the leg and foot will be conducted by students. Anyone with an interest in doing veterinary referral work should benefit from this class. Prerequisite: ANSC 1510.

### **FASC 2997 INDEPENDENT STUDY IN FARRIER SCIENCE (2)**

This course is designed to give students experience in developing, conducting and writing a small research project. Special topics or problems related to horseshoeing will be considered for projects. Students should gain detailed insight into a topic that is of particular interest to them. The requirements for this course are completed on an arranged schedule.

### **FASC 2998 INTERNSHIP IN APPLIED FARRIER SCIENCE II (3)**

This course is designed to provide on-the-job work experience and allow the student to apply skills and knowledge. Students gain this experience by working under the direct supervision of a practicing farrier. Application of technical skills, business management, and customer relations are realized in this course. The applied internship can be done Fall or Spring semester or during the Summer session.

### **FASC 2999L FARRIER SCIENCE CAPSTONE COURSE (4)**

This course is designed to be a capstone course for Farrier Science, focusing on specialty and therapeutic work. Both shoeing and forging will be implemented into this laboratory-oriented course. Preparation for the American Farriers Association advanced certification exams will be a part of this course. Prerequisite: FASC 1220L.

### **FAS 106 HOOF CARE FOR HORSES (3)**

This course is a basic overview of hoof care designed for horse owners. Topics include hoof management involving nutrition, foot care manners, trimming & shoeing, horseshoe selection, and nail selection.

### **Arts (ARTS)**

### **ARTS 1860 BEGINNING SPUR MAKING (3)**

This course is designed for introductory level spur



making including the overlay of silver. This course will enable students to gain the skills necessary in fabricating the band, shank, hangers and rowels required in making a pair of spurs. Students will also acquire an understanding of the theory and practice of metal cutting, shaping, welding, and finishing of one pair of spurs. Lab will consist of design and completion of a pair of spurs.

### **ARTS 1863 SILVERSMITHING FOR THE ARTIST (3)**

This laboratory-oriented course is designed for either farriers or artistic blacksmiths who have a desire to enhance their forging skills. Students are allowed to select and practice the forging or blacksmithing skill of their own choosing.

### **ARTS 1810 JEWELRY AND SMALL METAL**

#### **CONSTRUCTION I (3)**

This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects. Prerequisite: ARTS 1863 and FAS 109.

### **FAS 108 ENGRAVING I (3)**

This course is designed for introductory level engraving on precious and non-precious metals. This course consists of understanding the theory and practice of hand and power assist engraving on spurs and jewelry.

### **FAS 109 BIT AND SPUR MAKING (3)**

This course is designed for intermediate level spur making including the overlay and engraving of silver. This course consists of understanding the theory and practice metal cutting, shaping and welding in order to build one pair of spurs. Lab will consist of design and completion of a pair of spurs.

### **FAS 207 JEWELRY MAKING (3)**

This course is designed for an introduction to basic jewelry making. The students will learn to make several types of jewelry in the Western style including, rings, bracelets, pendants and earrings. Students will learn

to use a jeweler's saw to cut out pieces from precious metals, soldering and joining techniques, basic stone setting, metal forming, polishing and engraving of precious metals. Lab will consist of design and completion of one or more pieces of jewelry.

### **FAS 208 ARTISTIC SILVERSMITHING – ENGRAVING (3)**

This course is designed for mid-level engraving on precious and non-precious metals. This course consists of understanding the more advanced methods of hand and power assist engraving on spurs and jewelry. Prerequisite: FAS 108.

### **FAS 262 ADVANCED BIT DESIGN (0)**

This course is designed for entry level bit making. The following topics will be covered-leverage, purchase, leverage-purchase ratio, Mullen and mouthpiece design and placement. Students will also be introduced to tig welding techniques. By course end, students will have made one Bayer's style leverage bit, one loose jaw leverage bit, and one snaffle bit.

### **FAS 264 ADVANCED ENGRAVING TECHNIQUES (3)**

This course is designed for advanced level engraving on precious and non-precious metals. This course consists of understanding the more advanced methods of hand and power assist engraving on spurs and jewelry. Prerequisite: FAS 208

### **FAS 294 SPECIAL TOPICS: FABRICATION (3)**

This course is a comprehensive study in fabricating of the many ornamental trapping used in western culture. Fabricating rope borders, three piece buckle sets, advanced Conchos and other such items will be taught. Students will also gain knowledge in tig welding and high temperature solders and the subsequent cleanup of fabricated items. Upon course completion, students will have gained all the necessary skills in the fabrication of all high-end ornaments and devices used and worn by individuals in western culture.

## **Foreign Language**

### **FR 101 INTRODUCTION TO FRENCH CULTURE**

## **AND LANGUAGE I (4)**

This first French language course is designed to immerse students in French culture via a romantic comedy filmed in France. This course also contains photos, cartoons, graphics, film clips, interviews, and excerpts from television and advertising drawn from the French-speaking world.

## **FR 102 INTRODUCTION TO FRENCH CULTURE**

### **AND LANGUAGE II (3)**

This second French language course is a continuation of Introduction to French Culture and Language I and is designed to immerse students in French culture via a romantic comedy filmed in France. This course also contains photos, cartoons, graphics, film clips, interviews, and excerpts from television and advertising drawn from the French -speaking world.

## **Spanish (SPAN)**

## **SPAN 100 INTRODUCTION TO SPANISH (3)**

This course is designed for individuals with no experience in Spanish. It introduces the student to the sound system, pronunciation, and basic vocabulary necessary for communication in Spanish. This course is recommended for students who have had no previous exposure to Spanish or to the study of another foreign language.

## **SPAN 1110 SPANISH I (3)**

Designed for students with little exposure to Spanish, this course develops basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication at the Novice Level of proficiency based on ACTFL guidelines. During this course, students perform better and stronger in the Novice-Mid level while some abilities emerge in the Novice High range. This is an introductory course aimed at helping the student to communicate in Spanish in everyday familiar situations via recognition and production of practiced or memorized words, phrases, and simple sentences. (SPAN 1110- AreaV)

## **SPAN 1120 SPANISH II (3)**

Designed for students with some degree of exposure to Spanish in high school and/or at home, this course continues to develop basic listening, speaking, reading, and writing skills and basic intercultural competence in

interpretive, interpersonal and presentational modes of communication based at the Novice High Level of proficiency based on ACTFL guidelines, although a few abilities may emerge in the Intermediate Low Level. Students in this course communicate in Spanish in familiar topics using a variety of words, phrases, simple sentences and questions that have been highly practiced and memorized. Prerequisite: SPAN 1110.

(SPAN 1110 - AreaV)

## **SPAN 2110 SPANISH III (3)**

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions. Prerequisite: SPAN 1120.

## **SPAN 2120 SPANISH IV (3)**

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate High Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.. Prerequisite: SPAN 1120.

## **SPAN 293 SPECIAL TOPICS IN SPANISH (1-3)**

This course varies in topics as selected by the instructor. The course may be repeated for credit as long as the topic differs. Topics will be as announced in the current course schedule. Prerequisites: SPAN 1110 and SPAN 1120 or consent of instructor.

## **Forensic Science**

### **FOR 124 INTRODUCTION TO FORENSIC SCIENCE (4)**

This course introduces the student to Forensic science as a practical application of science to matters of the law. In this class the student will study the basic techniques of forensic science, such as DNA fingerprinting, the classification of illicit drugs, the preservation of evidence, crime scene investigation and many other laboratory and field techniques such as the detection of art forgery, investigation of fire and explosions, and ballistic. Each subject is accompanied by practical exercises and lab work.

## **Geography (GEOG)**

### **GEOG 1120 WORLD REGIONAL GEOGRAPHY (3)**

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

### **GEOG 1130 HUMAN GEOGRAPHY (1)**

This course serves as an introduction to the study of human geography. Human geography examines the dynamic and often complex relationships that exist between people as members of particular cultural groups and the geographical "spaces" and "places" in which they exist over time and in the world today.

## **Geology (GEOL)**

### **GEOL 1110 PHYSICAL GEOLOGY (4)**

Physical Geology is an introduction to our dynamic Earth introducing students to the materials that make up Earth (rocks and minerals) and the processes that create and modify the features of our planet. The course will help students learn how mountains are formed, how volcanoes erupt, where earthquakes occur, and how water, wind, and ice can shape the landscape. Students will also develop a basic understanding of the ways humans have altered the planet including our impact on natural resources and global climate change. (GEOL 1160 - Area III)

### **GEOL 1120 ENVIRONMENTAL GEOLOGY (4)**

This course is a survey of environmental geology with an introduction to problems of pollution, population, human relations to the environment, resource use, geologic hazards and environmental problems. The course covers the major components of the Earth system, i.e. atmosphere, lithosphere, hydrosphere, and biosphere, and how they are related. Environmental Geology addresses the mechanisms that drive these Earth processes, how different parts of the Earth are connected, how matter and energy flow through our environment, and how humans fit into the environmental systems. Emphasis is placed on the use of the scientific method and the development of critical thinking skills in understanding environmental issues. Prerequisite: GEOL 1110 or consent of instructor.

### **GEOL 1122 INTRODUCTION TO ENVIRONMENTAL SCIENCE (4)**

Introduction to Environmental Science presents an overview of Earth's environmental problems as a result of human interactions with the natural world and discusses possible solutions. The topics explored in this class include: environmental interrelationships, philosophical and economic issues, principles of ecology, sources and use of energy, impact of human activities on natural ecosystems, and the major types of pollution.

### **GEOL 1130 DINOSAURS AND THEIR WORLD (4)**

Dinosaurs and Their World is a survey of the fossil record, evolution, paleobiology and extinction of dinosaurs, and the animals with which they shared the Earth.

### **GEOL 1140 GEOLOGICAL DISASTERS (4)**

This course will incorporate an overview of the geological processes that result in natural disasters and the input humans have on the amplification or mitigation of these natural disasters. We will examine past catastrophes and discuss the probability of such disasters occurring again. Hazards investigated will include, but not be limited to earthquakes, volcanoes, tsunamis, hurricanes, floods, landslides, and astronomical events such as meteor and comet collisions with Earth. We will investigate the data obtained from recent disasters and explore the costs in human and economic terms.

## **GEOL 1150 INTRODUCTION TO ROCKS AND MINERALS (1)**

This course is an introduction to the characteristics and the formation of the three main types of rocks, the rockforming minerals, and important ore minerals. An outline of Plate Tectonics (Continental Drift) will give students the basis to understand how many of these rocks and minerals form. In laboratory exercises, students will gain practice in describing and identifying hand-specimens of the main types of rocks and minerals.

## **GEOL 1155 INTRODUCTION TO MUSEUM SCIENCE (4)**

This course presents an overview of museum organization and function with a particular emphasis on natural history museums. Major themes will be the basic functions, organization and management of a museum, the main divisions of a museum and their functions, the collection, conservation and curation of natural history specimens and the theory and construction of exhibits.

## **GEOL 1160 INTRODUCTION TO FIELD PALEONTOLOGY (4)**

This course introduces the basic field and laboratory techniques utilized in study of fossils (paleontology). Students gain extensive practical experience of collecting and processing fossils with an emphasis on vertebrate fossils. Laboratory and curatorial work will be conducted at the Mesalands Community College's Dinosaur Museum.

## **GEOL 1310 PALEONTOLOGY FIELD EXPEDITION (4)**

This class is conducted in cooperation with the Cottonwood Gulch Foundation, Albuquerque, and designed for students between 15 and 19 in age. Students will live at a scientific base camp in the wilderness while excavating fossils and learning about ancient environments and their inhabitants. The course introduces the basic field techniques utilized in study of fossils (paleontology) and rocks (geology). Students will gain extensive practical experience of collecting and processing fossils, with an emphasis on vertebrate fossils. They will also engage in a variety of independent field and research projects, such as prospecting techniques for fossils, studying preservation of fossils, studying rocks and interpreting their formation, or constructing and interpreting maps.

## **GEOL 1320 PALEONTOLOGY FIELD DISCOVERY (4)**

This course provides a week-long experience of excavating fossils and processing them in a museum. Student will prospect for and learn to excavate dinosaur-age vertebrates in the Quay County area. Basic laboratory methods and preparing field specimens will be studied in the Natural Science Laboratory at Mesalands Community College's Dinosaur Museum. Students will learn about the local rocks and age determination, and they will also study the major groups of fossil vertebrates found in this area.

## **GEOL 1330 PALEONTOLOGY FIELD EXPLORATION (4)**

This course presents a seven-day overview of the basic field, laboratory and museum methods used in the study of fossils. Students will follow the whole process from searching for a fossil and excavating it from the ground, through cleaning and stabilizing it, to cataloging it in Mesalands Community College's Dinosaur Museum. Included are a trip to a site rich in dinosaur footprints, and hands-on experience in molding and casting fossils.

## **GEOL 1990 TRIASSIC VERTEBRATE PRACTICUM (1-4)**

This course provides an introduction to excavating fossils and processing them in a laboratory setting. Student will prospect for and learn to excavate vertebrate fossils from the Upper Triassic in eastern New Mexico. Basic laboratory and preparation methods for field specimens will be practiced in the Natural Science Laboratories at Mesalands Community College's Dinosaur Museum. Students will explore aspects of the anatomy, systematics, evolutionary relationships, and paleobiology of the principal groups of Late Triassic vertebrates.

## **GEOL 1998 INTERNSHIP IN GEOLOGY (1-10)**

This course provides the freshman student the opportunity to gain practical experience while working for a geologically oriented operation. Examples of possible locations for internships could include natural history museums, federal or state agencies or private companies. Students will identify learning objectives at the beginning of the internships that will be evaluated at the end of the semester. This class may be repeated for credit. Prerequisite: GEOL 1110 or consent of the



instructor.

### **GEOL 2110 HISTORICAL GEOLOGY (4)**

This course reviews the major geological and biological processes and events over the Earth's 4.6-billion-year history. Students will learn about the formation of the Earth and its development through time including changes in the lithosphere, atmosphere, hydrosphere, and biosphere. The interrelationships between the physical aspects of Earth history and biological origins, evolution of species, and causes of extinctions will be explored. Prerequisites: GEOL 1110, GEOL 1150, or instructor consent. (GEOL 1214 - Area III)

### **GEOL 2130 INTRODUCTION TO METEOROLOGY (2)**

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. Prerequisite: GEOL 1122, or GEOL 1110 (or equivalent college-level science course), or consent of instructor.

### **GEOL 2145 HISTORY OF LIFE (4)**

This course presents an overview of the evolution and diversity of life on Earth. Students will study the main features of the evolution of the principal organisms on Earth (including plants, animals and microorganisms) and the evolution of ecosystems. Prerequisite: BIOL 1110C or GEOL 1110 or consent of the instructor.

### **GEOL 2155 THEORY AND PRAXIS OF MUSEUM SCIENCE (4)**

This course presents a broad spectrum of theories and practices used by museum professionals. The major theme of the course is to introduce students to useful methods for care, preparation, and conservation of museum collections. The course also considers the importance of knowledge of federal and international laws that govern museums; professional ethics; the importance of collection management; exhibitions and interpretation; and museum curatorship. All topics include practical assignments conducted in conjunction with Mesalands Community College's Dinosaur Museum and Natural Sciences Laboratory.

### **GEOL 2210 GEOLOGY OF SOUTHWESTERN NEW MEXICO AND WESTERN TEXAS (4)**

This course will introduce students to some of the basic elements of geology and vertebrate paleontology. Students will receive an orientation followed by a field trip through southwestern New Mexico and western Texas. Geological topics examined on the field trip will include Karst phenomena at Carlsbad Caverns, the structure, sedimentology and paleontology of a Permian reef complex (Guadalupe Mountains), Precambrian through Mesozoic sedimentology and stratigraphy of the El Paso area, an introduction into dinosaur tracks, the structure of an intrusion (Cerro de Cristo Rey) and maar volcanology at Kilbourne Hole. Prerequisite: GEOL 1110, GEOL 152 or consent of the instructor.

### **GEOL 2220 TRIASSIC VERTEBRATES FROM THE AMERICAN SOUTHWEST (4)**

Students are introduced to the principal fossil vertebrate groups from the Late Triassic by means of original material and replicas plus scientific publications, and they will explore their anatomy, systematics, evolutionary relationships, and paleobiology. Students will also learn about age correlations of strata based on physical properties of rocks and based on fossils. The course may include field and museum excursions.

### **GEOL 2230 DINOSAURS OF COLORADO (4)**

This course will introduce students to some of the basic elements of geology and dinosaur paleontology, in the classroom and on a four day trip through southwest Colorado. The field trip will include visits to dinosaur quarries, footprint sites, and paleontology museums.

### **GEOL 2240 DAWN OF THE AGE OF DINOSAURS – TRIASSIC GEOLOGY AND LIFE IN THE TEXAS PANHANDLE (4)**

This course will introduce students to some of the basic elements of geology, stratigraphy, and vertebrate paleontology. Students will receive a pre-trip lecture/ orientation followed by a four day trip through east-central New Mexico and the Texas panhandle. The field trip will include visits to geological sites at Palo Duro Canyon State Park, several fossil quarries and an oil field in the Post

area, archeological sites, the Grace Museum (Abilene), and the Museum of Texas Tech University (Lubbock).

### **GEOL 2250 VOLCANOES AND DINOSAURS IN NORTHEASTERN NEW MEXICO AND**

#### **COLORADO (4)**

This course will introduce students to some of the basic elements of geology and vertebrate paleontology. Students will receive an orientation followed by a field trip through northeastern New Mexico and southern Colorado. Geological and paleontological topics examined on the field trip will include morphology and volcanology of a cinder cone (Capulin Mountain), an introduction into dinosaur tracks and visits of mega footprint sites (Mosquero, Dinosaur Ridge), the K-T boundary of the Raton basin, and visits to paleontology and natural history museums in central Colorado.

### **GEOL 2260 GEOLOGY OF THE AMERICAN SOUTHWEST (4)**

This course familiarizes the student with an overview of the geology of the southwestern United States. Students learn about the geological processes that led to the development of the American Southwest and also about the fossil record of this region.

### **GEOL 2910 RESEARCH IN NATURAL SCIENCES I (2)**

The purpose of this course is to give students exposure to authentic laboratory environments and the practical application of the scientific method. Students will design and conduct a research project and present the results in a professional venue. Research topics may be selected from any area of STEM-H (Science, Technology, Engineering, Mathematics and Health). GEOL 2910 also includes study of scientific literature, applying the case study method in scientific research, practical use of software for research and presentation (Photoshop, PowerPoint, Excel), studying of topics relevant to the area of study, and practicing oral and written presentations.

### **GEOL 2920 RESEARCH IN NATURAL SCIENCES II (2)**

GEOL 2920 is the second part of a research course

designed to give students exposure to authentic laboratory environments and the practical application of the scientific method. Students will continue to conduct and finalize a research project, prepare a written or oral presentation, and present the results in a professional venue. GEOL 2920 also includes basic statistics, study of topics integral or related to the area of study, application of computer programs relevant to the area of study and the medium of presentation, and practicing oral or written presentations. Prerequisite: GEOL 2910 or one laboratory science course, and consent of instructor.

### **GEOL 2991 DIRECTED STUDY IN GEOSCIENCE (1-4)**

This course provides the student an opportunity to engage in a study of a subject not covered by the curriculum of the College or not offered during that semester. The subject will be decided by a student in consultation with a faculty member. Subjects that could be covered by a directed study could include any branch of the geosciences. Prerequisite: GEOL 1110 and GEOL 152.

### **GEOL 2997 INDEPENDENT STUDY IN GEOSCIENCE (1-4)**

This course provides the student an opportunity to pursue an independent study or research project concerning a topic of interest. The topic will be chosen by the student in consultation with a faculty member. Subjects that could be covered by an independent study can either be extensions of topics covered by other classes or include subjects that are not covered by the current curriculum. Prerequisites: GEOL 1110 and GEOL 152, or consent of the instructor.

### **GEOL 2998 INTERNSHIP (1-10)**

This course provides the sophomore student the opportunity to gain practical experience while working for a geologically-oriented operation. Examples of possible locations for internships could include natural history museums, federal or state agencies or private companies. Students will identify learning objectives at the beginning of the internship that will be evaluated at the end of the semester. This class may be repeated for credit. Prerequisites: GEOL 1110, GEOL 152, and one GEOL 200 level (excluding GEOL 2997 and GEOL 293).

### **GEOL 270 INVERTEBRATE PALEONTOLOGY (4)**

This course covers the diversity and evolution of

invertebrate animals. Topics will include the origin, classification and diversity of invertebrates, evolution of the major groups and aspects of the paleoecology and taphonomy of invertebrates. Laboratory and field trips will emphasize local fossils. Prerequisite: GEOL 152.

## **GEOL 280 VERTEBRATE**

### **PALEONTOLOGY (4)**

Vertebrate Paleontology presents an overview of the diversity and evolution of vertebrate animals. Students will cover the principal kinds of vertebrate fossils, the main features of the evolution of vertebrates and the principles of the paleoecology and taphonomy of vertebrate fossils. Prerequisite: GEOL152, or consent of instructor.

## **GEOL 285 TRACKING DINOSAURS (4)**

Eastern New Mexico is rich in the fossil footprints from before the age of dinosaurs to after their demise. This course provides an overview of the study of ancient footprints and includes discussion of how to interpret animal tracks, and obtaining information about ancient ecologies from footprints. Prerequisite: GEOL 152.

## **GEOL 293 SPECIAL TOPICS IN GEOLOGY (4)**

This course number will be used for geology topics that are not covered in the regular curriculum. Courses will be offered irregularly, based on need and interest, and may cover any area of geology including paleontology and museum science.

## **Health and Physical Education**

### **Health Education (HLED)**

#### **HLED 2230 OBSERVATIONS IN HEALTH AND PHYSICAL EDUCATION (1)**

This course is designed to give the student the opportunity to experience the behind the scenes work of an instructor in a typical activity class as well as the actual instructing of the course so they can better understand teaching and learning in the Health and Physical Education setting. The Student will select an activity course in a

predetermined area of interest and assist the instructor with the responsibilities of that class.

### **Physical Education (PHED)**

#### **PHED 1110 AEROBICS: LOW IMPACT (1)**

This course provides a practical application to low impact exercising. The emphasis is on injury prevention, health benefits, and weight control. Students will be introduced to rating fitness level and learn to follow routines that focus on arm work to more complicated steps requiring them to move across the floor. Students will be introduced to low-impact movements for developing natural grace and agility.

#### **PHED 1110 AEROBICS : AEROBICS WORKOUT (1)**

This course provides basic instruction in cardiovascular exercise utilizing the activity of step aerobics. This course is taught at a beginning level for individuals who have never participated in a step aerobics program.

#### **PHED 1110 DANCE: COUNTRY & WESTERN DANCING (1)**

This course illustrates the popular Country and Western Dances, including Country Line Dances. A step by step guide to the framework and the different type of Country dances is provided. The focus is not only on technique but in having fun while learning these dances.

#### **PHED 1140 ZUMBA: ZUMBA I (0.5)**

This course is designed to jump start students into Zumba®. Zumba classes feature exotic rhythms set to high-energy Latin and international beats. The Zumba® Program integrates some of the basic principles of aerobic, interval, and resistance training to maximize caloric output, cardiovascular benefits and total body toning. The cardio-based dance movements are easy-to-follow steps that include body sculpting, which targets areas such as gluteus, legs, arms, core, abdominals and the most important muscle in the body – the heart.

#### **PHED 1140 ZUMBA: ZUMBA II (1)**

This course is designed to introduce students to Zumba®. The Zumba® Program integrates some of the basic principles of aerobic, interval, and resistance training to

maximize caloric output, cardiovascular benefits and total body toning. The cardio-based dance movements are easy-to-follow steps that include body sculpting, which targets areas such as gluteus, legs, arms, core, abdominals and the most important muscle in the body – the heart.

### **PHED 1160 THE ART OF DANCING (1)**

The Art of Dancing is a course for students who wish to learn to dance or to improve their dancing. Emphasis is on ballroom dancing with techniques for dancing the Fox Trot, Waltz, Tango, Rumba, La Conga, Samba Jitterbug and the Lindy Hop. Students will be introduced to ballroom etiquette, will understand the elements of leading and following, and will be able to tell what kind of dance the orchestra is playing.

### **PHED 1230 INDIVIDUAL SPORT: BEGINNING BOWLING (1)**

This course acquaints the student with the lifetime sport of bowling. Instruction will focus on terminology, equipment selection, basic techniques and scorekeeping, as well as individual evaluation tips. Team competition will be introduced. Emphasis will be placed on having fun while bowling.

### **PHED 1230 INDIVIDUAL SPORT: BOXING (1)**

This challenging, non-contact boxing course will cover basic boxing skills (stance and basic footwork, punches, combinations, defensive moves, etc.) as well as participation in general conditioning activities commonly performed by boxers.

### **PHED 1230 INDIVIDUAL SPORT: GOLF (1)**

Learning Golf is a “how-to-learn” course that is designed expressly for aspiring golfers, both beginners and veterans. The course prepares students to experience a lifetime of ease, enjoyment, and fascination with playing the game of golf.

### **PHED 1230 INDIVIDUAL SPORT: TENNIS (1)**

Applications of Tennis will assist students who want to increase their understanding of the physical, mental, and emotional aspects of tennis. The course provides descriptions of physical training techniques, plus useful guidelines of mental and emotional development.

### **PHED 1230 INDIVIDUAL SPORT:**

### **ULTIMATE FRISBEE (1)**

This course will cover the rules, techniques and tactics involved in playing Ultimate Frisbee while participating in various conditioning and skill-related drills and semi-competitive games.

### **PHED 1290 TEAM SPORT: SOCCER (1)**

Fundamentals of Soccer provides a history and philosophy of soccer as well as practical applications. The early beginnings and the future of soccer will be discussed. Students will be able to explain and demonstrate the basics of soccer and develop technical skills. This course develops techniques while at the same time offering the student every facet of physical exercise, skill and mental dexterity.

### **PHED 1310 SWIM 1: BEGINNING SWIMMING (1)**

This course is designed for the beginning student who wishes to learn to swim. Emphasis is on learning basic swimming techniques for fun, fitness, health and personal safety.

### **PHED 1320 AQUA FIT: SWIMMING FOR FITNESS (1)**

Swim For Fitness explores the benefits of swimming and assists the student in achieving and maintaining fitness for a lifetime. Development of swimming techniques is the major focus of this course. Included in this course are some obstacles to swimming and their solutions.

### **PHED 1320 AQUA FIT: WATER AEOROBICS (1)**

This course introduces the student to water aerobics. Water Workout is designed as a comprehensive water exercise regimen that targets all four major areas of fitness: flexibility, coordination, strength and endurance.

### **PHED 1430 PILATES: STYLE MAT TRAINING (1)**

This course is designed to introduce students to Pilates-style mat work. The progressive course is designed to train core strength and stability as well as improve flexibility and facilitate relaxation.

### **PHED 1460 CONDITIONING: INDIVIDUAL HEALTH**



develop a base of general muscular conditioning.

**PHED 1460      CONDITIONING:  
STRATEGIES                      OF**

Off-season conditioning program focuses on improving and maintaining speed, agility and quickness (SAQ) in an attempt to improve total body power and athletic explosiveness.

This muscular conditioning class utilizes hand-held weights and exercise bands to tone, define, sculpt and strengthen major muscle groups in an aerobic setting.

This user-friendly boot camp is designed with the busy professional in mind and intended to increase metabolism and strengthen heart health. By using functional movements and core exercises, participants compound warm-up, workout, and cool down into a highly effective hour.

Offers students a total body workout within a single exercise session. Machine weight training exercises are performed consecutively to tone and strengthen major muscle groups in a fun-filled, musical environment.

This course provides basic instruction in cardiovascular exercise utilizing non-contact kick boxing movements (punches, kicks, basic footwork, combinations, etc.). This course is taught at a beginning level for individuals who have never participated in a cardio kickboxing class.

Introduces the activity of weight training and focuses on designing and safely implementing a personalized program utilizing free weights and machine exercises to

Introduces in a non-intimidating environment weight training designed for women and focuses on the use of free weights and machines to develop muscle tone, strength and improve bone density.

Focuses on individualized, goal-oriented exercise programs for individuals 50 years of age and older based on assessment of muscular and cardiorespiratory fitness. Utilizes weight machines, free weights and stretching activities to improve strength, endurance, range of motion, bone mass, balance, overall well-being and the ability to perform activities of daily living.

Under the guidance of a personal trainer, the student will assess their muscular strength, muscular endurance, cardiorespiratory fitness, flexibility and body composition. Based on the assessments, the student and the trainer will design and implement a systematic, goal-oriented exercise program. Follow-up sessions with the trainer will be available. This is an ideal class for those who want to “quick start” into an independent exercise program.

Under the guidance of a personal fitness trainer, the student will design and implement a “quick start fitness program” to address identified goals based on health and activity history. This is an ideal class for those who want to “quick start” into an independent exercise program.

Walking for Fitness is a course for those who desire an easier, safer, less strenuous and infinitely more enjoyable way to fitness and inner well-being. Students will be introduced to the benefits of walking. They will understand

the principle of determining target heart rate and will demonstrate the procedure. Students will be able to calculate average caloric expenditure for various activities and will be introduced to and participate in a basic walking program.

### **PHED 1710 MARTIAL ARTS: JUDO (1)**

Judo utilizes body and mind in the development of skills. Emphasis of this course is on the art of throwing and on the art of groundwork which includes holds, locks and strangles. The beginnings and future of Judo will be discussed. Students will learn how to conduct themselves in a proper manner.

### **PHED 1710 MARTIAL ARTS: TAE-KWON-DO (2)**

This course provides a practical application to the art of self-defense and a means of getting and staying in good physical condition. The emphasis will be on prevention of injury, health benefits, and a means of staying physically fit. Students will be introduced to the art of Karate (Tae-Kwon-Do), a means of striking with the hands and feet. It is not the intent of this class to teach students to be aggressive with others, only a means of self-defense and staying physically fit. Each student will be introduced to stretching exercises required to be able to perform basic punching, kicking, and self-defense techniques.

### **PHED 1910 OUTDOOR EXPERIENCE: FLY FISHING (1)**

This course is for the fly-fishing novice, as well as all fly fishermen wanting to add to their fishing knowledge and techniques. Included in this course are such diversified subjects as fly-tying, nymphs, stream insects, proper wading, tricks for suspicious trout and discussions of fly rods and fly lines.

### **PHED 1950 RODEO: FUNDAMENTALS OF MEN'S TIMED EVENTS (2)**

This course provides the student with an overview of men's timed events fundamentals and will provide a basis for subsequent more in-depth men's timed event courses. This class will study the principles and technique used in the three men's timed events; tie-down roping, team roping and steer wrestling. Students will learn safety procedures, identify and use proper safety equipment and fundamental techniques of men's timed events in this course. Student must pass a pre-participation physical and have proof of insurance on file.

### **PHED 1950 RODEO: FUNDAMENTALS OF RODEO (1)**

This is an instructional course designed to familiarize students with the rules and regulations associated with competitive rodeo. The exercise and fitness principles and techniques involved in rodeo, as well as injury prevention, are addressed. Participation in competitive rodeo is not required for this course.

### **PHED 1950 RODEO: FUNDAMENTALS OF ROUGH STOCK RIDING (2)**

This course provides the student with an overview of rough stock riding fundamentals and will provide a basis for subsequent more in-depth rough stock courses. This class will study the principles and technique used in the three rough stock riding events; bareback riding, saddle bronc riding and bull riding. Students will learn safety procedures, identify and use proper safety equipment and fundamental riding techniques in this course.

### **PHED 1950 RODEO: FUNDAMENTALS OF STEER WRESTLING (1)**

This course provides the student with an overview of steer wrestling fundamentals. This class will study the principles and technique used in steer wrestling. Students will learn safety procedures, identify and use proper safety equipment and fundamental in this course.

### **PHED 1950 RODEO: FUNDAMENTALS OF WOMEN'S RODEO EVENTS (2)**

This course provides the student with an overview of women's timed events fundamentals and will provide a basis for subsequent more in-depth women's timed event courses. This class will study the principles and technique used in the three women's timed events; barrel racing, goat tying and breakaway roping. Students will learn safety procedures, identify and use proper safety equipment and fundamental techniques of women's timed events in this course. Student must have passed a pre-participation physical and have proof of insurance on file with Student Affairs.

## **PHED 2996 TOPICS IN PHYSICAL EDUCATION (.5-3 CR)**

This course number will be used for health and physical education topics that are not typically scheduled. Course will be offered irregularly, based on need and interest, and may cover any area of health and physical education including both theory and activity courses.

### **HPE 100 FITNESS FOR LIFE (1)**

This self-paced course is designed to allow students the opportunity to stay in shape and live a healthy lifestyle by exercising on a regular basis. The students have an opportunity to use various exercise machines and equipment.

### **HPE 110 WESTERN SQUARE DANCE (1)**

This course illustrates traditional western square dances. Included in this course is a step by step guide to the framework and the different type of square dances. The focus is not only on technique but in having fun.

### **HPE 112 BEGINNING BOWLING (1)**

This course acquaints the student with the lifetime sport of bowling. Instruction will focus on terminology, equipment selection, basic techniques and scorekeeping, as well as individual evaluation tips. Team competition will be introduced. Emphasis will be placed on having fun while bowling.

### **HPE 118 FITNESS YOGA (1)**

Introduces various techniques of fitness-style Yoga.

### **HPE 120 STEP AEROBICS (1)**

Step Aerobics provides students with a cardiovascular workout as well as a weight reduction program. The routine varies between aerobic dance and aerobic workout with the stepper. This provides a total body workout and adds variety to the program. Students will be introduced to the policies for a safe workout and will follow and observe these rules. Students will understand the principle of maintaining target heart rate and demonstrate accurate body movements throughout the routine.

### **HPE 124 INTERMEDIATE RODEO**

## **TECHNIQUES (1)**

This intermediate level instructional rodeo course addresses techniques used in various rodeo events. Demonstration of the various rodeo events will be given to the students and they will be given the opportunity to use their acquired skills at club practices. Both men's and women's events will be covered.

**HPE 125 INTERMEDIATE WEIGHT TRAINING (1)** Continuation of PHED 1510. Course focuses on the design and safe implementation of an intermediate, periodized resistance/weight training program to improve muscular endurance, hypertrophy, muscular strength, power and peaking.

### **HPE 131 FIRST AID/CPR (1)**

The First Aid/CPR course is designed to provide a focused program in basic life support for laypersons who will serve as first responders to potential adult victims of cardiopulmonary arrest at home, at work, and in the community. The primary goal of this course is to provide lay rescuers with the skills they need to respond to common life-threatening emergencies such as respiratory and cardiac arrest and foreign-body airway obstruction.

### **HPE 147 ZUMBA® (TM) TONING (1)**

This course is designed to blend body-sculpting techniques and specific Zumba® moves to build a single calorie-burning, strength-training class. Students will learn how to use weighted, maraca-like Zumba™ Toning Sticks during performance of a variety of international dance movements to enhance rhythm, build strength, posture, and tone all the target zones during a safe, controlled routine.

### **HPE 151 INTERMEDIATE ROUGH STOCK RIDING (2)**

This course familiarizes rough stock riders with the rules and regulations associated with competitive rough stock riding. Students will become familiar with the rules governing each rough stock event, as well as an understanding of the principals of judging rough stock events. Students will be able to use and demonstrate their skills in scheduled practices. Prerequisite; PHED 1950.

## **HPE 161 INTERMEDIATE WOMEN'S TIMED EVENTS (2)**

This course familiarizes students with the rules and regulations associated with competitive women's timed events. Students will become familiar with the rules governing each woman's timed event, as well as an understanding of the principals of judging women's timed events. Students will be able to use and demonstrate their skills in scheduled practices. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisite: PHED 1950.

## **HPE 171 INTERMEDIATE MEN'S TIMED EVENTS (2)**

This course familiarizes students with the rules and regulations associated with competitive men's timed events. Students will become familiar with the rules governing each man's timed event, as well as an understanding of the principals of judging men's timed events. Students will be able to use and demonstrate their skills in scheduled practices. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisite: PHED 1950.

## **HPE 195 STRESS MANAGEMENT (3)**

This health and wellness course introduces the student to the concepts of reducing stress through time management, breathing/Eastern techniques, and assorted atypical considerations. Students should better identify stressors, develop methods of management, and observe improvements in their home, work/school, and spiritual lives.

## **HPE 201 HEALTH AND WELLNESS (3)**

This course is a "user-friendly" guide to healthful living that encourages students to take proactive stance toward maintaining health, with a focus on the lifestyle components that encourage wellness. It encompasses all areas of health: physical, emotional, social, intellectual, and spiritual.

## **HPE 214 ADVANCED RODEO TECHNIQUES (1)**

This is an instructional course designed to familiarize students with the rules and regulations associated with competitive rodeo. The exercise and fitness principles

and techniques involved in rodeo, as well as injury prevention, are addressed. Participation in competitive rodeo is not required for this course.

## **HPE 216 APPLIED GOLF (1)**

Applied Golf is an in depth course that is designed for golfers to look into the different swing mechanics taught by some of the worlds greatest teachers, to analyze their games, to make the needed improvements, and to play the game with the knowledge of the great players of the past and present. This class will prepare the student to evaluate their own game and the knowledge to make adjustments to improve their game.

## **HPE 224 APPLIED RODEO TECHNIQUES (1)**

This is an instructional course designed to familiarize students with the rules and regulations associated with competitive rodeo. The exercise and fitness principles and techniques involved in rodeo, as well as injury prevention, are addressed. Participation in competitive rodeo is not required for this course.

## **HPE 226 HISTORY OF DANCE (1)**

This course explores the exciting, daring, and dynamic world of dance. There will be a broad, historic overview of the art form. Other topics include the respective roles of the dancer, choreographer and audience. The origins and evolution of the major dance genres will also be explored.

## **HPE 235 ADVANCED WEIGHT TRAINING (1)**

Continuation of HPE 125. Course focuses on the design and implementation of advanced resistance training programs to improve muscular endurance, hypertrophy, muscular strength, power and peaking. Prerequisite: HPE 125 or consent of instructor.

## **HPE 243 ZUMBA® III (1)**

This course is designed to give students a more advanced Zumba® experience. Zumba classes feature exotic rhythms set to high-energy Latin and international beats. The Zumba® Rhythms include: Merengue, Salsa, Raggaeton, Calypso, Flamenco, Belly Dancing, Tango, Samba, and much more. Program integrates some of the basic principles of aerobic, interval, and resistance training to maximize caloric output, cardiovascular benefits and total body toning.



The cardio-based dance movements are easy to follow steps that include body sculpting, which targets areas such as gluteus, legs, arms, core, abdominals and the most important muscle in the body – the heart.

### **HPE 250    ADVANCED ROUGH STOCK RIDING (2)**

This course provides the student with advanced level instruction of rough stock riding. The course will cover intermediate level techniques used in the three rough stock riding events; bareback riding, saddle bronc riding and bull riding. Students will be able to demonstrate proper safety techniques, injury prevention and intermediate level riding skills. Students will be given the opportunity to use their skills during scheduled classes. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950 and HPE 151.

### **HPE 251    APPLIED ROUGH STOCK RIDING (2)**

In this course students will apply fitness and wellness concepts involved in competitive rough stock riding events, injury prevention measures, basic injury care, and physical and mental strategies involved in competing in rough stock events as well as the proper techniques involved to be competitive in the three rough stock riding events; bareback riding, saddle bronc riding and bull riding. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950, HPE 151, and HPE 250.

### **HPE 260    ADVANCED WOMEN'S RODEO EVENTS (2)**

This course provides the student with advanced level instruction of women's timed events. The course will cover intermediate level techniques used in the three women's timed events; barrel racing, goat tying and breakaway roping. Students will be able to demonstrate proper safety techniques, injury prevention and intermediate level women's timed event skills. Students will be given the opportunity to use their skills during scheduled classes. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950 and HPE 161.

### **HPE 261    APPLIED WOMEN'S RODEO EVENTS (2)**

In this course students will apply fitness and wellness concepts involved in competitive women's timed events, injury prevention measures, basic injury care, and physical and mental strategies involved in competing in women's timed events as well as the proper techniques involved to be competitive in the three women's timed events; barrel racing, goat tying and breakaway roping. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950, HPE 161, HPE 260.

### **HPE 270    ADVANCED MEN'S RODEO TIMED EVENTS (2)**

This course provides the student with advanced level instruction of men's timed events. The course will cover intermediate level techniques used in the three men's timed events; tie-down roping, team roping and steer wrestling. Students will be able to demonstrate proper safety techniques, injury prevention and intermediate level men's timed event skills. Students will be given the opportunity to use their skills during scheduled classes. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950 and HPE 171.

### **HPE 271    APPLIED MEN'S TIMED EVENTS (2)**

In this course students will apply fitness and wellness concepts involved in competitive men's timed events, injury prevention measures, basic injury care, and physical and mental strategies involved in competing in men's timed events as well as the proper techniques involved to be competitive in the three men's timed events; tie-down roping, team roping and steer wrestling. Student must pass a pre-participation physical and have proof of insurance on file. Prerequisites: PHED 1950, HPE 171, HPE 270.

## **Health Science (HLSC)**

### **HLSC 1110    INTRODUCTION TO HEALTH SCIENCE (3)**

This course introduces students to various health professions and the common knowledge, skills, and professional dispositions necessary for success in the health

care field. Students will explore basic concepts in anatomy and physiology, medical terminology, human growth and development, cultural diversity, legal and ethical issues, components of the health care delivery system, roles and responsibilities of health care professionals and educational requirements as they relate to the health care field.

### **HLSC 1210 MEDICAL CAREER EXPLORATION (3)**

Medical Career Exploration examines the goals of health care and explores the requirements of medical educational programs. This course provides research into educational requirements, desired personal characteristics, job satisfaction, career advancement, employment opportunities, and work hours. Topics discussed are socioeconomics, current and future health care trends, ethical issues, and pharmaceutical use in medicine. Hands-on experience at a medical facility is included as part of the course. Prerequisites: ENGL 1110 and HLSC 1110.

### **HLSC 1310 DENTAL CAREER EXPLORATION (3)**

Dental Career Exploration examines the goals of dentistry and explores the requirements of dental educational programs. This course provides research into career descriptions, career role, educational ladder, safety issues, and career opportunities for dentists. Hands-on experience at a dental clinic is included as part of the course. Prerequisites: ENGL 1110 and HLSC 1110.

### **HLSC 1410 VETERINARY CAREER EXPLORATION (3)**

Veterinary Career Exploration examines the goals of veterinary medicine and explores the requirements of veterinarian educational programs. This course provides research into career descriptions, career role, educational ladder, safety issues, and career opportunities for veterinarians. Hands-on experience at a veterinary clinic is included as part of the course. Prerequisites: ENGL 1110 and HLSC 1110.

## **History (HIST)**

### **HIST 1110 UNITED STATES HISTORY I (3)**

The primary objective of this course is to serve as an introduction to the history of the United States from the pre-colonial period to the immediate aftermath of the

Civil War. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies. (HIST 1110 - Area V)

### **HIST 1120 UNITED STATES HISTORY II (3)**

The primary objective of this course is to serve as an introduction to the history of the United States from reconstruction to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies. (HIST 1120 - Area V)

### **HIST 1150 WESTERN CIVILIZATION I (3)**

This course is a chronological treatment of the history of the western world from ancient times to the early modern era. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to “non-western” civilizations which impact and influence the development of “western” civilization. (HIST 1150 - Area V)

### **HIST 1160 WESTERN CIVILIZATION II (3)**

This course is a chronological treatment of the history of the western world from the early modern era to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to “non-western” civilizations which impact and influence the development of “western” civilization. (HIST 1063 - Area V)

### **HIST 2110 SURVEY OF NEW MEXICO HISTORY (3)**

The primary objective of this course is to serve as an introduction to the history of New Mexico from the preColumbian times to the present day. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of New Mexico within the context of the Americas. (HIST 2110 - Area V)

## **HIST 160 THE U.S. AND VIETNAM 1940-1975 (3)**

This course is a survey of the intersection of American and Asian histories in Vietnam. It not only explores the Vietnamese context of the war, but also identifies the reason for United States involvement. The class analyzes the relationship of the war to the foreign policies of the Kennedy, Johnson, and Nixon administrations. Consideration is given to this foreign policy as a representative example of post-World War II United States globalism. In addition, the course examines the relationship of the war to domestic policy and the anti-war movement. It also considers the causes of defeat and the plight of the war's veterans. Finally, it assesses the lessons that were learned.

## **Human Services (HMSV)**

### **HMSV 1110 GROUP DYNAMICS (3)**

This course introduces you to basic issues and stages of development in the group counseling process; overview of types of counseling groups, group theory, leadership ethical guidelines, group formation and termination.

### **HMSV 1120 INTERVIEWING TECHNIQUES (3)**

This course is designed to teach basic interviewing techniques used in a variety of settings. Theoretical foundations of various interviewing styles and techniques will be examined. The student will develop an awareness of ways in which the interviewer's background, attitudes, and behaviors influence the interview.

### **HMSV 2140 INTRODUCTION TO ALCOHOL AND DRUG**

#### **ABUSE (3)**

This course provides a broad overview of the field, including issues of alcohol and other drugs in history and society; definitions and prevalence of alcohol and drugs use misuse and addiction; major theoretical perspectives on the causes and remedies of substance abuse; major landmarks in alcohol and drug social policy; and the development and evolution of the alcohol and drug abuse counseling field.

### **HMSV 2213 CO-OCCURRING DISORDERS**

#### **(3)**

This course provides students with an understanding of co-occurring psychiatric and substance abuse disorders and their impact on the individual, family and community. The course includes an integrated approach to address the issues accompanying the illness.

### **HMSV 2230 ALCOHOL & DRUG ABUSE COUNSELING: SPECIAL POPULATIONS (3)**

This course emphasizes the techniques and skills required for counseling with special populations including women, minorities, youth and persons with co-occurring physical and mental disabilities and disorders.

### **HMSV 2270 SUBSTANCE ABUSE IN FAMILIES (3)**

This course examines substance abuse within the context of a family system. It includes aspects such as developing a substance abuse family identity, typical problem-solving behaviors in substance-abuse families, daily routine regulators of home life, family ritual disruptions and intergenerational transmission of substance abuse patterns.

### **HMSV 2280 SUBSTANCE ABUSE PREVENTION (3)**

This course presents an overview of the history, principles, and approaches to the field of substance prevention. Topics include promotion of healthy lifestyle choice, community collaboration, public policy, and effective prevention planning. This course meets the State of New Mexico Alcohol, Tobacco, and Other Drugs (ATODA) requirements and prepares students to become candidates for certification as prevention interns.

### **HMSV 2998 INTERNSHIP (3)**

The purpose of internship in social welfare is to render students the opportunity to apply classroom knowledge to practice. Toward that end, the internship requires students to be placed with a community agency. In their respective agency placement, students are expected to demonstrate

social work skills, knowledge, and values in working with individuals, groups, families and communities. The internship can be done Fall or Spring semester or during the Summer session. Prerequisite: SOWK 2110.

## **Mathematics (MATH)**

### **MATH 1110 MATH FOR TEACHERS I (3)**

Investigates the representation of rational numbers and rational number arithmetic, including base ten and decimal numbers, fractions, and arithmetic operations on these sets. Connections to basic geometric concepts are included. Explanation and problem solving is emphasized throughout. Prerequisite: A grade of "C" or better in MATH 101 or appropriate score on the Placement Test.

### **MATH 1130 SURVEY OF MATHEMATICS (4)**

This course will develop students' ability to work with and interpret numerical data, to apply logical and symbolic analysis to a variety of problems, and/or to model phenomena with mathematical or logical reasoning. Topics include financial mathematics used in everyday life situations, statistics, and optional topics from a wide array of authentic contexts

### **MATH 1215 INTERMEDIATE ALGEBRA (3)**

A study of linear and quadratic functions, and an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems. Prerequisite: A grade of C or better in MATH 101 or appropriate score on the Success Assessment/ Placement Test.

### **MATH 1220 COLLEGE ALGEBRA (4)**

The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. Prerequisite: A grade of C or better in MATH 1215 or appropriate score on the Success Assessment/Placement Test. (MATH 1220 - Area II)

### **MATH 1230 TRIGONOMETRY (3)**

A study of plane trigonometry including the definitions of the fundamental trig functions using right angle

triangle and unit circle approaches. Trig functions of any real number will be evaluated and the functions graphed along with their transformations. Trigonometric identities will be developed and demonstrated including multiple angle identities and identities developed from them. Inverse Trigonometric functions will be developed and used to solve trigonometric equations. Trigonometric applications will be solved using right angle trigonometry and the laws of sines and cosines. Trigonometric methods will be applied to complex numbers and the use of 2D vectors and vector dot products. Prerequisite: MATH 1220 or appropriate score on the Success Assessment/ Placement Test. (MATH 1230 - Area II)

### **MATH 1350 INTRODUCTION TO STATISTICS (4)**

This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. Prerequisite: MATH 101 or MATH 1130 with a grade of "C" or better, or an appropriate score on the Mathematics Placement Assessment Test. (Physics 1114 - Area III)

### **MATH 1430 APPLICATIONS OF CALCULUS I (3)**

An algebraic and graphical study of derivatives and integrals, with an emphasis on applications to business, social science, economics and the sciences. Prerequisites: MATH 1220 and MATH 1230 with grade C or better or an appropriate score on the Success Assessment/Placement Test. (MATH 1613 - Area II)

### **MATH 1440 APPLICATIONS OF CALCULUS II (3)**

Topics in this second course of Applications of Calculus include functions of several variables, techniques of integration, an introduction to basic differential equations, and other applications. Prerequisite: MATH 1430 or appropriate score on the Success/ Assessment Placement Test.

### **MATH 1512 CALCULUS I (3)**

Limits. Continuity. Derivative: definition, rules,



geometric interpretation and as rate-of-change, applications to graphing, linearization and optimization. Integral: definition, fundamental theorem of calculus, substitution, applications such as areas, volumes, work, averages. Prerequisite: MATH 1430 or appropriate score on the Success/ Assessment Placement Test.

### **MATH 101 BASIC ALGEBRA (4)**

This course is an introduction or review of basic algebra. Topics include real numbers and algebraic expressions, equations and inequalities, graphing linear equations, solving systems of linear equations, and an introduction to arithmetic operations of polynomials and factoring polynomial expressions. Prerequisite: A grade of C or better in MATH 100 or appropriate score on the Success/Assessment Placement Test.

### **MATH 103 INTRODUCTION TO GRAPHING CALCULATORS**

**(1)**

This is an instructional course designed to familiarize students to the use of graphing calculators and graphing software programs on the computer. The course will give an overview of the mathematical logic, graphing and programming capabilities for one of the family of Texas Instrument calculators (namely the TI 83 or TI 83 Plus) and one or more instructor-selected graphing software programs such as Winplot and Graphical Analysis.

### **MATH 162 CALCULUS I (4)**

Topics of this first course in calculus will include limits of functions and continuity, and intuitive concepts and basic properties of the following: the derivative as a rate of change, using intuitive, numerical and theoretical concepts. Applications of the derivative will be made to graphing, linearization and optimization. The integral as a Riemann sum, the relation between differentiation and integration, and applications of the definite integral will be discussed. Prerequisite: MATH 1230 Trigonometry with a grade of "C" or better, or appropriate score on the Success Assessment/ Placement Test..

### **MATH 163 CALCULUS II (4)**

Topics of this second course in Calculus will include applications of integration, techniques of integration,

logarithmic and exponential equations, and properties of sequences and series. Prerequisites: Math 162 Calculus I with a grade of "C" or better.

### **MATH 293A INTRODUCTION TO MATLAB (3)**

This is an instructional course designed to familiarize students to the use of software programs on the computer. The course will give an overview of MATLAB and its graphing and programming capabilities.

## **Music**

### **MUSC 1130 MUSIC APPRECIATION: WESTERN MUSIC (3)**

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Western music from various cultures and times.. (Music 1130 - Area V)

## **Philosophy**

### **PHIL 2150 MORALITY AND SOCIETY (3)**

This course will focus on the philosophical analysis of contemporary moral issues. Students will read and discuss texts dealing with various controversial social issues, which might include health care access, physician-assisted suicide and euthanasia, the death penalty, incarceration, war, and terrorism. (PHIL 2150 - Area V)

### **PHIL 2230 PHILOSOPHICAL THOUGHT (3)**

TIn this course, students will grapple with some of the key questions of philosophy through the study of classical and contemporary thinkers. Students will become familiar with the perennial problems in subfields of philosophy such as metaphysics, epistemology, ethics, and aesthetics. They will learn to approach these problems both critically and sympathetically. (PHIL 2230 - Area V)

## **Phlebotomy**

## **PHLB 113 INTRODUCTION TO**

### **PHLEBOTOMY (3)**

This course examines the basic concepts of phlebotomy and venipuncture procedures along with anatomy and physiology, medical terminology, medical legal and ethical issues, best practices and quality assurance. The program is designed to provide students with the necessary skills for gainful employment as a phlebotomist, working under the supervision of a clinical laboratory supervisor. The phlebotomist is responsible for the proper collection, processing and testing of blood specimens and various other medical samples in accordance with OSHA safety regulations and standards. Upon successful completion of this program, the student will be eligible for application to the national licensing examination through the American Society for Clinical Pathology (ASCP). Prerequisite or Corequisite: AHS 103 and AHS 101.

### **PHLB 115L CLINICAL PHLEBOTOMY I (3)**

This Clinical course provides students an environment with multiple opportunities to practice phlebotomy procedures on simulated and actual patients. Prerequisite: AHS 103 and AHS 101. Corequisite: PHLB 113L.

### **PHLB 116L PHLEBOTOMY CLINICAL LAB (3)**

This course is the clinical portion of your certificate. It will entail going to clinical sites as set up by you and the instructor and obtaining 100 phlebotomy sticks per state requirements. Prerequisites: PHLB 113 and PHLB115L. Corequisite: PHLB 117.

### **PHLB 117L SPECIAL PRACTICES IN PHLEBOTOMY (3)**

This course examines additional basic concepts of: anatomy and physiology, specialized blood and non-blood collections, specimens and testing, infection control, safety, first aid and personal wellness, career opportunities in clinical and hospital sites, writing resumes and job seeking skills, best laboratory practices and continued quality assurance. Permission required. Prerequisite: PHLB113 and PHLB115L. Corequisite: PHLB116L.

## **Physics**

### **Astronomy (ASTR)**

#### **ASTR 1115C INTRODUCTION TO ASTRONOMY LECTURE & LABORATORY (4)**

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

### **Physics (PHYS)**

#### **PHYS 1115C SURVEY OF PHYSICS WITH LAB (4)**

Overview of the concepts and basic phenomena of physics. This course provides a largely descriptive and qualitative treatment with a minimum use of elementary mathematics to solve problems. No previous knowledge of physics is assumed. Includes laboratory.  
(Physics 1114 - Area III)

#### **PHYS 1230C ALGEBRA-BASED PHYSICS I LECTURE + LABORATORY (4)**

An algebra-based treatment of Newtonian mechanics. Topics include kinematics and dynamics in one and two dimensions, conservation of energy and momentum, rotational motion, equilibrium, and fluids. A series of laboratory experiments associated with the material presented in PHYS 1230. Prerequisite: MATH 101 or MATH 1130 with a grade of "C" or better, or an appropriate score on the Mathematics Placement Assessment Test. (PHYS1230C - Area III)

### **PHYS 1240C ALGEBRA-BASED PHYSICS II LECTURE + LABORATORY (4)**

The second half of a two semester algebra-based introduction to Physics. This course covers electricity, magnetism and optics. A series of laboratory experiments associated with the material presented in PHYS 1240.

Pre- or co-requisite: PHYS 1240 Algebra-based Physics II. Prerequisite: PHYS 1115C. (PHYS 1240C - Area III)

## **Political Science**

### **PSCI 102 AMERICAN POLITICS (3)**

This course emphasizes the structure and function of government as described in the Constitution of the United States. There will be discussions of major political ideas, theories, and practices in the meaning and motivation of government. The rise of federalism and of civil rights and liberties will be placed within the context of political history. Information presented will be predominantly focused on United States Supreme Court decisions. There will be discussion of the major political parties that have influenced the political and legislative environment. The executive and judicial branches of government will be also emphasized. (POLS 1123 - Area IV)

### **PSCI 202 STATE AND LOCAL GOVERNMENT (3)**

This course emphasizes the structure and function of government as described in the Constitution of the United States. There will be discussions of major political ideas, theories, and practices in the meaning and motivation of government. The rise of federalism and of civil rights and liberties will be

placed within the context of political history. Information presented will be predominantly focused on United States Supreme Court decisions. There will be discussion of the major political parties that have influenced the political and legislative environment. The executive and judicial branches of government will be also emphasized.

## **Pre-Collegiate Studies**

### **ENG 098 REFRESHER ENGLISH (3)**

Students in this course will develop their skills in basic written English. Proficiency in writing effective sentences, identifying and correctly using parts of speech are the desired outcomes in this course. Students will also achieve mastery in punctuation and capitalization. Students will develop a rich vocabulary.

### **ENG 099 BASIC GRAMMAR AND USAGE (4)**

This is the beginning level of the pre-collegiate English courses offered at Mesalands Community College. The course offers intensive instruction in writing sentences and paragraphs. The course offers intensive instruction in grammar and usage, including parts of speech, thesis statements, topic sentences, and paragraph development. A writing laboratory is included for learning enhancement.

### **ENG 100 BASIC WRITING SKILLS (3)**

This course places emphasis on teaching students to write well-developed, grammatically correct essays. Students learn how to develop topic sentences and write paragraphs and essays that are purposeful, coherently developed, and free of grammatical and usage errors. This course will prepare students for ENG 102

### **MATH 098 REFRESHER MATH (3)**

Students in this course will develop their skills in arithmetic. Proficiency in addition, subtraction, multiplication, and division are the desired outcomes in this course. Students will also achieve mastery in arithmetic functions using fractions, decimals and percentages.

### **MATH 099 GENERAL MATH (4)**

General Math is designed to prepare the student with the basic math skills needed for a certificate, diploma, entry to higher math, or personal improvement. The course covers addition, subtraction, multiplication, division, exponential notation, order of operations, prime numbers and

factoring as related to whole numbers, fractions, decimals, ratio and proportion, percents, business and consumer applications, and statistics. The course is designed to help the student develop numerical skill, enhance mathematical vocabulary, develop estimation and problem solving skills, apply mathematical concepts, and enhance calculator skills. A TI-30Xa SE Calculator is required for this course. Prerequisite: Appropriate score on the Success/Assessment Placement Test.

### **MATH 100 PRE-ALGEBRA (3)**

Pre-Algebra is designed to prepare the student for algebra, business math or accounting. Topics include: United States Customary Units of Measurement; Rational Numbers, including addition, subtraction, multiplication, and division of integers, scientific notation and the order of operations agreement; Introduction to Algebra including variable expressions, equations, translating verbal expressions into mathematical expressions, translating sentences into equations and solving; and Geometry including angles, lines, and geometric figures, perimeter, area, volume, the Pythagorean Theorem, and similar and congruent triangles. A scientific calculator is required for this course. Prerequisite: MATH 099, or appropriate score on the Success/Assessment Placement Test.

### **RED 099 FUNDAMENTALS OF READING AND VOCABULARY DEVELOPMENT (4)**

This pre-collegiate course is designed to develop vocabulary skills including: compound words, root words, prefixes and suffixes, synonyms, antonyms, homonyms and idioms. This course also covers fundamental reading skills including details, events and sequences, main idea, causes and effects, conclusions, character analysis, author bias and viewpoint, techniques of persuasion, and techniques of writing, such as similes, metaphors, hyperbole, and personification. A lab is included for reading enhancement on Plato and EDL systems in the Educational Services Center.

### **RED 100 BASIC READING SKILLS (3)**

This pre-collegiate course is designed to improve reading skills by emphasizing word attack, comprehension, vocabulary, reading rate, reference skills, following directions and listening skills. The course provides the student with reading practice and critical thinking skills leading to sufficient skills to meet college reading demands. (The course will not apply toward reading

certification endorsement.) Prerequisite: ENG 099 or appropriate score on the Success Assessment/Placement Test.

## **Psychology (PSYC)**

### **PSYC 1110 INTRODUCTION TO PSYCHOLOGY (3)**

This course will introduce students to the concepts, theories, significant findings, methodologies, and terminology that apply to the field of psychology. (PSYC 1110 - Area IV)

### **PSYC 1150 HUMAN RELATIONS (3)**

Students are introduced to psychology as a science that includes the study of human relations, using various theories of personality and group dynamics. Topics surveyed include psychology of self, personality theory, parenting, life span development, learning, therapies, and psychological disorders.

### **PSYC 2120 DEVELOPMENTAL PSYCHOLOGY (3)**

Study of human physical and psychological change and stability from a lifespan development perspective.

### **PSYC 2210 ABNORMAL PSYCHOLOGY (3)**

This course provides students with an introduction to the field of abnormal psychology. Subject areas include history, methods, theories, etiologies, classification and treatment of disorders.

### **PSYC 2230 PSYCHOLOGY OF ADJUSTMENT (3)**

This course focuses on the individual's adjustment to society, and the application of psychological principles to the understanding of adjustment.

### **PSYC 2290 PRINCIPLES OF TREATMENT (3)**

This course involves studies of the various treatment approaches used with alcohol and drug abusers with an emphasis on the principles that govern their effective application. There will be a focus on Intervention, Assessment, and Treatment Plan Development with the substance abuser resulting in meaningful change and a better quality of life.



### **PSYC 2310 DRUGS AND BEHAVIOR (3)**

The course provides a general introduction to the effects of alcohol, opiates, and other major classes of psychoactive drugs on the central nervous system, emphasizing the relationship between physiological, psychological, and behavioral effects of drugs.

### **PSYC 2325 PREVENTION OF DRUG AND**

#### **ALCOHOL ABUSE (3)**

This course, Prevention of Drug and Alcohol Abuse, examines effective programs and strategies used in the schools and in the community that prevent substance abuse and related problems. Emphasis is on how to design an appropriate, effective prevention program in either the schools or the community, which will prevent or reduce the incidence of drug or alcohol abuse in a particular high-risk population.

## **Range Science (RGSC)**

### **RGSC 100 INTRODUCTION TO PLANT SCIENCE (3)**

This introductory course in plant science addresses the fundamentals of agricultural plants with emphasis on nature, the environment and strategies of crop production. Emphasis on the ecological process for sustainable plant development will be explored as well as the identification of agricultural plants.

### **RGSC 2110 INTRODUCTION TO RANGELAND MANAGEMENT**

**(3)**

This course covers the principles of managing and understanding pasture and rangelands. Plant physiology and ecology, plant communities and rangeland sustainability and how they relate to livestock production and wildlife management will be discussed.

## **Religion (RELG)**

### **RELG 1123 HEBREW BIBLE (3)**

An introduction to the history, beliefs, practices, and development of the Hebrew and later Jewish religion as

reflected in the Hebrew Biblical Scriptures, using a historical and critical approach, with attention given to understanding its socio-cultural and political environment.

### **RELG 1126 NEW TESTAMENT (3)**

An introduction to the history, beliefs, practices, and development of the early Christian religion as reflected in the New Testament, using a historical and critical approach, with attention given to understanding its sociocultural and political environment.

### **RELG 2130 HISTORY OF CHRISTIANITY (3)**

This course examines Christianity from its origins to the present. The course will focus on church doctrine, people, movements, and problems that have characterized Christianity over two millennia.

### **RELG 2140 THE BOOK OF ACTS (3)**

An examination of the work of Peter and other early Christian leaders; missionary journeys of Paul; and the spread of early Christianity as recounted in the Book of Acts.

### **RELG 2520 JESUS AND THE SCHOOL OF HEALING (3)**

The introductory course takes a holistic approach to the biblical concept of healing. Topics include introduction to selected Old Testament passages with major emphasis in New Testament passages, containing the aspects of healing concepts. These passages are introductory exposure of the student to a broad understanding of the role of the Christian churches healing ministry in the twenty-first century. This will include introduction to the historical concepts, theological concepts, sacramental concepts, current models of holistic medicine concepts, and an introduction to authors with writings of relevance. Exposure to current works regarding death and dying; stress management, and related holistic theories.

### **RELG 2525 BELIEFS AND BELIEVERS (3)**

In this course, the student develops an understanding of what they believe and why they believe it. The student will gain some initial exposure to the religious systems of major world religions: Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam – as well as systems of belief which are outside the scope of what are deemed to be mainstream religious institutions, such as new age religions, Neopaganism, and “civil” religion.

## **Social Work (SQWK)**

### **SOWK 2110 INTRODUCTION TO HUMAN SERVICES AND SOCIAL WORK (3)**

This course is for students who are interested in social welfare issues and/or are considering entering a social service profession. The course presents an overview of social problems, issues and trends, and the network of social agencies developed to address these concerns. The course examines the influence of personal and professional values and ethics on the helping relationship. The concept of social welfare will be discussed from a social work perspective (with an emphasis on social justice), and students will gain a basic understanding of social work in U.S. society, social work career opportunities, and contemporary issues facing social workers. Approaches relevant to work with individuals, families, groups and communities are presented, with special emphasis on Hispanic and Indigenous populations of New Mexico and the Southwest.

## **Sociology (SOCI)**

### **SOCI 1110 INTRODUCTION TO SOCIOLOGY (3)**

This course will introduce students to the basic concepts and theories of sociology, as well as to the methods utilized in sociological research. The course will address how sociological concepts and theories can be utilized to analyze and interpret our social world, and how profoundly our society and the groups to which students belong influence them. Students will be given the opportunity to challenge their “taken for granted” or “common sense” understandings about society, social institutions, and social issues. Special attention will also be paid to the intimate connections between their personal lives and the larger structural features of social life. In addition, the implications of social inequalities, such as race/ethnicity, gender, and social class will be central to the course’s examination of social life in the United States.. (SOCI 1110 - Area IV)

### **SOCI 1345 CULTURAL DIVERSITY (3)**

This course examines, from a theoretical and experiential social work perspective, the personal behaviors and

institutional factors that have led to oppression of ethnic minorities and various cultural groups. Attention is given to discriminatory practices as related to sex, age, religion, disablement, sexual orientation, and culture. The course explores the strategies that the various groups have employed to deal with discrimination. Implications to the individual, society, and the profession are explored.

### **SOCI 1350 RURAL AMERICA (3)**

Change and diversity are the terms most descriptive of rural America today. This course addresses four themes, which characterize the social and economic contexts within which rural communities must address their problems. Each section examines rural communities from a different perspective, enabling students to explore the complexity and diversity among communities. Collectively the four sections examine the process of community development and transition- exploring the ways in which history, culture, and policies limit change as well as the extent to which local community resources can mobilize to support efforts at community change.

### **SOCI 2225 INTRODUCTION TO WOMEN’S STUDIES (3)**

This course is designed to help students identify, understand and defuse gender stereotypes and barriers. A control goal is to empower women to take charge of their own lives. Topics include sexuality, socialization, selfesteem, leadership, motherhood and transcending victimization models of feminism and femininity.

### **SOCI 2226 EMPOWERING WOMEN (3)**

This course is designed to help students identify, understand and defuse gender stereotypes and barriers. A control goal is to empower women to take charge of their own lives. Topics include sexuality, socialization, selfesteem, leadership, motherhood and transcending victimization models of feminism and femininity.

### **SOCI 2240 SOCIOLOGY OF INTIMATE RELATIONSHIPS AND FAMILY (3)**

This course provides an overview of contemporary intimate relationships and families from sociological perspectives. We will examine intimate relationships and families as social constructions whose meanings have changed over time and from place to place. This course will aid students in developing a greater understanding of intimate relationships and families as institutions in contemporary U.S. society. Intersections of race, class, gender, sexual orientation, nationality, and other factors within these institutions will be addressed. (SOCI 2240 - Area IV)

### **SOCI 2260 SOCIOLOGY OF AGING (3)**

This is an introductory gerontology course for students interested in behavioral, social, or family studies. The course is designed to understand the separate processes of biological, psychological, and social aging and how these aging processes interact with each other and with our environment.

### **SOCI 2310 CONTEMPORARY SOCIAL PROBLEMS (3)**

This course studies the nature, scope, and effects of social problems and their solutions. The course will concentrate on sociological perspectives, theories, and key concepts when investigating problems, such as inequality, poverty, racism, alienation, family life, sexuality, gender, urbanization, work, aging, crime, war and terrorism, environmental degradation, and mass media. This course is designed to build students' sociological understanding of how sociological approaches attempt to clarify various issues confronting contemporary life, as well as how sociologists view solutions to these problems. (SOCI 2310 - Area IV)

### **SOCI 2330 SOCIETY AND PERSONALITY (3)**

From a sociological vantage point, this course will introduce students to the discipline of social psychology, which is the scientific study of how people think about, influence, and relate to one another. Special attention will be given to the applications of social psychological insights. The course will explore the many ways our social environment influences our behavior

### **SOC 100 FRAMEWORK FOR CHANGE (1)**

A Framework for Change is a -based training series designed for men and women who face the challenge of overcoming a substance-abuse problem. The series provides a framework of concepts and techniques that focus on the underlying barriers to recovery. A Framework for Change provides critical thinking skills that assist the participant in making lifestyle changes that are necessary for long-term recovery. Prerequisite: Sentenced by the courts.

## **Theater (THEA)**

### **THEA 1110 INTRODUCTION TO THEATRE (3)**

This course provides an introduction to the study of theatre. Students will examine various components that comprise theatre, such as acting, directing, playwriting, dramaturgy, scenic and costume design, stagecraft, spectatorship, history, theory, and criticism. (THEA 1110 - Area V)

### **THTR 121 BEGINNING ACTING (3)**

This course is an introduction to the techniques, principles of stage movement, and basic problems common to all actors. Production is used as a means of developing techniques and principles of acting, including auditioning skills and emphasis on voice and body control. A lab is required.

## **Welding**

### **TSC 100 WELDING I (1)**

This course is designed for introductory level welding and cutting processes to enhance technical skills. This course consists of understanding the theory and practice of Oxy-Acetylene welding, brazing, and cutting as well as Shield Metal Arc Welding (AC/DC). Lab will consist of exercises in oxy-acetylene and arc welding.

### **TSC 101 WELDING II (1)**

TSC 101 is a continuation of TSC 100. Students receive additional practice in oxygen-acetylene and arc welding, brazing and cutting as well as shield metal arc welding (AC/DC). Laboratory will consist of exercises in oxy-acetylene and arc welding. Simple projects may be introduced. Prerequisite: TSC 100.

### **TSC 102 AUTO BODY WELDING (1)**

This course is designed to teach the student the basics of mig welding for auto body and repair. The course will demonstrate the proper techniques to spot weld, plug weld, stitch weld, and continuous weld.

### **TSC 106 APPLIED WELDING (3)**

Applied welding is a course designed to provide students with hands-on training in oxy-acetylene welding, brazing, and cutting, as well as shield metal arc welding (AC\DC). Student also will work with M.I.G and T.I.G welding, in addition to building projects.

### **TSC 107 APPLIED WELDING II (3)**

This course concentrates on advanced study of materials and methods in their application to industry. Welding different metals in various positions and the study of welding codes, metallurgy of rods, electrodes, and materials will be covered. The practice of joint work, fabrication of equipment for industry and construction will be studied.

## **Wind Energy Technology**

### **Renewable Energy (RNBL)**

#### **RNBL 1010 INTRODUCTION TO RENEWABLE ENERGY (3)**

This course is an introduction to renewable energy as compared to non-renewable energy. A close study of locally available renewable energy will allow a hands-on approach to solar, hydro, bio mass, and wind energy. Proper siting, feasibility, payback, and calculations, such as, load, storage and production will be introduced. Passive as well as active systems and dwellings will be studied.

#### **RNBL 1060 ELECTRICAL THEORY FOR RENEWABLE ENERGY (4)**

This course introduces electrical safety, the basic principles of Direct Current (DC) and Alternating Current (AC) theory. Electrical energy applications in basic, capacitive, and inductive circuits will be covered in lecture and laboratory study, as will applications of basic renewable energy electrical components and systems.

#### **RNBL 1150 FIELD SAFETY AND EXPERIENCE (3)**

Wind turbine safety principles and practices are provided to ensure that persons working on wind power plants are safeguarded from the hazards associated with the work environment and the electro-mechanical systems therein. Students will obtain field experience involving tower safety

and rescue, and will be familiarized with applicable OSHA standards.

#### **RNBL 1160 INTRODUCTION TO MOTORS AND GENERATORS (3)**

The electric motor and generator are critically important devices for generating mechanical and electrical power in nearly all heavy industries, including wind energy. In this course, students will be introduced to the various types of motors and generators commonly found within commercial wind turbines and study their configurations, functions, and operational characteristics. Prerequisites: WET 101, RNBL 1160, and WET 205.

#### **RNBL 1210 WIND TURBINE MECHANICAL SYSTEMS (3)**

This course is designed to familiarize students with the mechanical systems found within industrial wind turbines. These include turbine yaw drive systems, pitch drive systems, primary drive gearboxes, and smaller mechanical systems. Prerequisites: WET 101, WET 105, RNBL 1150, and RNBL 1400.

#### **RNBL 1400 WIND TURBINE CLIMBING AND SAFETY I (1)**

This course will introduce the student to the environment of a wind turbine. The student will obtain skills of proper identification, inspection, donning, and maintenance of personal protection equipment (PPE) and fall protection equipment. An initial climb test will be administered before tower work proceeds.

#### **RNBL 1410 WIND TURBINE CLIMBING AND SAFETY II (1)**

This course will establish hazard awareness to the student in the environment of a wind turbine. The student will obtain skills of proper identification, inspection, reporting, and correcting the hazards. Climb time in this course will emphasize rigging, hoisting, and nacelle top equipment and proper tie off points. Prerequisite: RNBL 1400

#### **RNBL 1993 RENEWABLE ENERGY WORKSHOP (3)**

Renewable Energy Workshop consists of lecture,



tours and hands-on labs that introduces the theory and application of residential, community and commercial renewable energy being produced or utilized in New Mexico and the surrounding areas. This week long course may end with a project.

### **RNBL 2040 INTRODUCTION TO HYDRAULICS (3)**

This course will introduce the basic elements and applications of hydraulic power. Additional emphasis will be given to circuits, pressure, flow and control of hydraulic systems. Prerequisite: WET 115

### **RNBL 2180 WIND TURBINE ELECTRONICS (4)**

This course explores the technologies and methodologies employed by heavy industry to remotely monitor and control power facilities. The study of commercial wind turbine monitoring and control systems will be strongly emphasized, as will the use of such systems to aid in the troubleshooting and maintenance of wind turbines. This course is designed to familiarize students with the principles of digital technology, and the composition of systems that employ it. Emphasis will be given to advanced industrial computerized control and automation systems. Prerequisites: WET 116, WET 205, and WET 219.

### **WET 101 INTRODUCTION TO WIND ENERGY (3)**

This course will explore the concept of harnessing naturally occurring winds to generate electricity. Wind powered mechanisms, wind farms, and the current status of wind energy utilization will be discussed. Horizontal Axis, Vertical Axis, and other Wind Turbine designs will be covered. The history of wind energy will be included.

### **WET 105 ELECTRICAL THEORY I (4)**

This course introduces the basic principles of Direct Current (DC) and Alternating Current (AC) theory. Electrical energy applications in basic, capacitive, and inductive circuits will be covered in lecture and laboratory study, as will applications of basic electrical components and systems.

### **WET 120 OSHA 10 (1)**

This 10-Hour Safety Course is intended for entry-level participants and is intended to provide instruction on a variety of general safety and health standards. Course topics will include Introduction to OSHA, Electrical Safety, Fall Protection, Walking and Working Surfaces, Materials Handling, Personal Protective Equipment, Exit Routes, Emergency Action Plans, Fire Prevention Plans, Fire Protection, Machine Guarding, and Hazard Communication. Upon successful completion of this course, participants will receive an OSHA Construction Safety and Health 10-Hour Card.

### **WET 121 WIND TURBINE MECHANICAL SYSTEMS (3)**

This course is designed to familiarize students with the mechanical systems found within industrial wind turbines. These include turbine yaw drive systems, pitch drive systems, primary drive gearboxes, and smaller mechanical systems. Prerequisites: WET 101, WET 105, RNBL 1150, and RNBL 1400.

### **WET 190 INTERNSHIP IN WIND TECHNOLOGY (6)**

The wind turbine internship gives students the opportunity to apply and practice the skills developed in the first year of the Wind Energy Technology Program in real-world settings at an actual wind farm.

### **WET 205 ELECTRICAL THEORY II (4)**

Electrical Theory II builds upon basic direct current (DC) theory and alternating current (AC) theory obtained from Electrical Theory I, particularly alternating current and three-phase power generation as it relates to the wind turbine. Prerequisite WET 105.

### **WET 217 WIND TURBINE SITING, ERECTION, GENERATION AND DISTRIBUTION (3)**

Through the understanding of required steps, the students will be obtaining knowledge of the development of a wind turbine site. Development will include the siting, construction and commissioning of the wind farm. The history of the United States electrical power industry is examined. The concepts of electrical power generated from a wind turbine, transfer through the power distribution system and received by the customer will be examined. Power curves are utilized to determine how much power

will be produced by a given turbine at a particular site. Dynamics of interfacing turbines with the power grid is examined. Prerequisite WET 116.

injuries sustained. Prerequisite: Health physical required

## **WET 219 WIND TURBINE OPERATIONS, MAINTENANCE, AND REPAIR**

**(4)**

This valuable course is designed to introduce students to the general maintenance practices and procedures employed within the wind energy industry. The study of wind turbine mechanical system and subsystem fundamentals will be included. Hands on practice of installation, operation, maintenance, troubleshooting, and repair of wind turbine electro-mechanical systems is included in this course; as well as real-world troubleshooting scenarios that may be encountered in the wind energy workplace. Prerequisites: RNBL 1210, RNBL 2040, and WET 205.

## **WET 240 WIND TURBINE CLIMBING AND SAFETY III (3)**

This course will instruct the student in the proper procedure of entering the wind turbine hub. The student will obtain the skill of proper lock out/tag out procedures of the rotor lock. The student will learn to identify the components inside the hub. Climb time will emphasize safe techniques of hub entrance and egression. Prerequisite RNBL 1410

## **WET 241 WIND TURBINE CLIMBING AND SAFETY IV (1)**

This course will establish procedures to the student in stopping and starting the wind turbine. The student will obtain skills of proper housekeeping. The student will be introduced to maintenance and troubleshooting techniques. Climb time will evaluate the student's knowledge obtained through all Wind Turbine Climbing and Safety courses. Prerequisites: WET 240.

## **WET 250 TOWER SAFETY AND TRAINING (1)**

This training course is designed for tower workers who oversee other workers on the towers. The training provides individuals with the required skills to safely distinguish, evaluate, and control hazards related to wind tower work. It also teaches students climbing techniques, proper selection of fall protection equipment and how to correctly rig a variety of rescue equipment for a range of possibilities and rescue a victim considering the probable

# MCC COURSE CONVERSION MATRIX

SUBJECT	New Prefix	New #	New Course Title	Cr	Old Prefix & #	Old Course Title	Cr
ACCOUNTING	ACCT	2110	Principles of Accounting I	3	ACCT 202	Principles of Accounting I	3
ACCOUNTING	ACCT	2115	Survey of Accounting	3	ACCT 110	Office Accounting	3
ACCOUNTING	ACCT	2120	Principles of Accounting II	3	ACCT 210	Principles of Accounting II	3
ACCOUNTING	ACCT	2125	Introduction to Intermediate Accounting I	3	ACCT 222	Intermediate Accounting I	3
ACCOUNTING	ACCT	2240	Cost Management Accounting	3	ACCT 213	Managerial Accounting	3
ACCOUNTING	ACCT	2320	Introduction to Tax I (Individual)	3	ACCT 211	Personal Income Tax	3
AGRICULTURE	AEEC	1110	Introduction to Agricultural Economics and Business	3	ABM 264	Agricultural Economics	3
AGRONOMY	AGRO	1110	Introduction to Plant Science (Lecture & Laboratory)	3	RGSC 100	Introduction to Plant Science	3
ANIMAL SCIENCE	ANSC	1110	Animal Science Careers	3	ANSC 190	Internship in Animal Science	3
ANIMAL SCIENCE	ANSC	1120	Introduction to Animal Science	3	ANCS 100	Introduction to Animal Science	3
ANIMAL SCIENCE	ANSC	1510	Equine Anatomy And Physiology	3	ANSC 151	Equine Anatomy And Physiology of Dom. Animals	3
ANIMAL SCIENCE	ANSC	2110	Introduction to Equine Behavior & Training	3	ANSC 142		
ANIMAL SCIENCE	ANSC	2120	Equine Management	3	ANSC 224	Equine Management	3
ANIMAL SCIENCE	ANSC	2130	Western Equitation II	3	ANSC 124		
ANIMAL SCIENCE	ANSC	2310	Introduction to Meat Science	3	ANSC 270	Meat Animal and Carcass Evaluation	3
ANIMAL SCIENCE	ANSC	2320	Principles of Animal Nutrition	3	ANSC 275	Principles of Nutrition	3
ANIMAL SCIENCE	ANSC	2330	Animal Production		ANSC 245	Animal Breeding	3
ANIMAL SCIENCE	ANSC	2340	Genetics in Animal Science	3	ANSC 125		3
ANTHROPOLOGY	ANTH	1140	Introduction to Cultural Anthropology	3	ANTH 201	Introduction to Cultural Anthropology	3
ANTHROPOLOGY	ANTH	1210	Introduction to Archaeology	3	ANTH 101	Introduction to Archaeology	3
ANTHROPOLOGY	ANTH	2160	Prehispanic Peoples of the American Southwest	3	ANTH 210	Prehistory of the American Southwest	3
ART HISTORY	ARTH	1110	Art Appreciation	3	ART 101	Art Appreciation	3
ART HISTORY	ARTH	1141	Art of the Comics	3	ARTH 1141	Art of the Comics	3
ART HISTORY	ARTH	2110	History of Art I	3	ART 261	Art History	3
ART HISTORY	ARTH	2120	History of Art II	3	ARTH 2120	History of Art II	3
ART HISTORY	ARTH	2140	Art of the American Southwest	3	ART 266	Art of the American Southwest	3
ART STUDIO	ARTS	1240	Design I	3	ART 103	Basic Design	3
ART STUDIO	ARTS	1250	Design II	3	ART 104	3-D Concepts	3
ART STUDIO	ARTS	1320	Ceramics I	3	ART 172	Ceramics: Introduction to Hand Building	3
ART STUDIO	ARTS	1410	Introduction to Photography	3	ART 216	Digital Photography and the Digital Darkroom	3
ART STUDIO	ARTS	1520	Digital Media I	3	ART 123	Digital Media I	3
ART STUDIO	ARTS	1530	Digital Media II	3	ART 153	Digital Media II (P)	3
ART STUDIO	ARTS	1541	Introduction to Digital Fabrication for the Arts	3	ARTS 1541	Introduction to Digital Fabrication for the Arts	3
ART STUDIO	ARTS	1542	Digital Art to 3D CNC Machining	3	ARTS 1542	Digital Art to 3D CNC Machining	3
ART STUDIO	ARTS	1610	Drawing I	3	ART 112	Drawing I	3
ART STUDIO	ARTS	1616	Drawing Comics & Sequential Art	3	ARTS 1616	Drawing Comics & Sequential Art	3
ART STUDIO	ARTS	1630	Painting I	3	ART 113	Painting I	3
ART STUDIO	ARTS	1710	Introduction to Printmaking	3	ART 160	Printmaking I	3

ART STUDIO	ARTS	1810	Jewelry and Small Metal Construction I	3	ART 207	Jewelry Making	3
ART STUDIO	ARTS	1830	Shop Foundation	3	ART 151	Shop Foundation	3
ART STUDIO	ARTS	1840	Sculpture I	3	ART 114	Sculpture	3
ART STUDIO	ARTS	1854	Artistic Blacksmithing	3	ART 133	Sculptural Blacksmithing	3
ART STUDIO	ARTS	1860	Beginning Spur Making	4	ART 141	Beginning Spur Making	3
ART STUDIO	ARTS	1861	Spurmaking I	3	ART 100	Principles of Fabrication	3
ART STUDIO	ARTS	1862	Basic Casting Techniques	3	ART 105	Basic Casting Techniques	3
ART STUDIO	ARTS	1863	Silversmithing for the Artist	3	ART 107	Artistic Silversmithing	3
ART STUDIO	ARTS	1864	Artistic Silversmithing	3	ART 108	Engraving I	3
ART STUDIO	ARTS	1865	Artistic Silversmithing-Bit & Spur Making	3	ART 109	Bit and Spur Making	3
ART STUDIO	ARTS	1866	Silversmithing	4	ART 144	Silversmithing	4
ART STUDIO	ARTS	1867	Bit Making	4	ART 143	Bit Making	4
ART STUDIO	ARTS	1869	Signal Bit Design and Fabrication	4	ART 145	Signal Bit Design and Fabrication	4
ART STUDIO	ARTS	1870	Engraving	4	ART 142	Engraving I	4
ART STUDIO	ARTS	2010	Portfolio Development	1-3	ART 298	Capstone Portfolio Project	1-3
ART STUDIO	ARTS	2310	Ceramics II	3	ART 176	Intermediate Wheel Ceramics	3
ART STUDIO	ARTS	2510	Drawing II	3	ART 222	Drawing II (P)	3
ART STUDIO	ARTS	2615	Drawing III	3	ART 250	Drawing III	3
ART STUDIO	ARTS	2621	Drawing for Animation	3	ART 147	Drawing for Animation	3
ART STUDIO	ARTS	2630	Painting II	3	ART 203	Painting II (P)	3
ART STUDIO	ARTS	2650	Art Foundry I	3	ART 225	Foundry	3
ART STUDIO	ARTS	2861	Modeling Sculpture and Mold Making	3	ART 205	Modeling Sculpture and Mold Making (P)	3
ART STUDIO	ARTS	2862	Casting Wax and Bronze	3	ART 215	Casting Wax and Bronze	3
ART STUDIO	ARTS	2866	Artistic Silversmithing-Engraving	3	ART 208	Engraving II	3
ART STUDIO	ARTS	2870	Engraving II	4	ART 242	Engraving II	4
ART STUDIO	ARTS	2871	Engraving III	4	ART 243	Engraving III	4
ART STUDIO	ARTS	2880	Advanced Project Design	2	ART 246	Advanced Project Design	2
ART STUDIO	ARTS	2885	Studio	1-4	ART 230	Studio (C)	1-4
ART STUDIO	ARTS	2996	Topics in Art Studio	1-9	ART 293	Special Topics in Art (P)	3
ART STUDIO	ARTS	2999	Capstone:	1-4	ART 299	Capstone Engraving Project	4
ASTRONOMY	ASTR	1115C	Introduction to Astronomy (lec+Laboratory)	4	PHYS 120	Introduction to Astronomy (P)	4
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1115	Introduction to Computers	4	CIS 101	Introduction to Computers	4
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1120	Computer Literacy	3	CIS 103	Computer Concepts	3
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1160	Windows	4	CIS 116	Windows	4
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1215	Introduction to MS Excel	1	CIS 133	Basics of Excel	1
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1220	Introduction to MS Word	1	CIS 138	Basics of Word	1
BUSINESS COMPUTER INFORMATION SYSTEMS	BCIS	1230	Introduction to MS PPT	1	CIS 143	Basics of Graphics	1



<b>INFORMATION SYSTEMS</b>	BCIS	1610	Intermediate Computing	4	CIS 161	Intermediate Computing (P)	4
<b>BUSINESS COMPUTER INFORMATION SYSTEMS</b>	BCIS	2120	Desktop Publishing	4	CIS 222	Desktop Publishing	
<b>BUSINESS COMPUTER INFORMATION SYSTEMS</b>	BCIS	2150	Advanced Computing	4	CIS 211	Advanced Computing (P)	4
<b>BUSINESS COMPUTER INFORMATION SYSTEMS</b>	BCIS	2217	MS EXCEL	4	CIS 108	Spreadsheet Applications	4
<b>BUSINESS COMPUTER INFORMATION SYSTEMS</b>	BCIS	2220	MS Word	4	CIS 201	Word Processing Applications	4
<b>BUSINESS COMPUTER INFORMATION SYSTEMS</b>	BCIS	2230	MS PowerPoint	4	CIS 210	Graphics Applications	4
<b>BUSINESS FINANCE</b>	BFIN	2140	Personal Finance	3	FIN 101	Personal Finance	3
<b>BIOLOGY</b>	BIDL	1110C	General Biology Lecture & Laboratory	4	BID 113	Introduction to Biology	4
<b>BIOLOGY</b>	BIOL	1411	Genetics	4	BIOL 119	Introduction to Genetics	4
<b>BIOLOGY</b>	BIDL	2210C	Human Anatomy and Physiology I Lecture and Laboratory	4	BIDL 211	Human Anatomy and Physiology I	4
<b>BIOLOGY</b>	BIOL	2215	Comparative Vertebrate Anatomy	4	BIOL 250	Comparative Vertebrate Anatomy (P)	4
<b>BIOLOGY</b>	BIDL	2225C	Human Anatomy and Physiology II Lecture and Laboratory	4	BIDL 212	Human Anatomy and Physiology II	4
<b>BIOLOGY</b>	BIOL	2310C	Microbiology Lecture & Laboratory	4	BIOL 222	Microbiology	4
<b>BUSINESS LAW</b>	BLAW	2110	Business Law I	3	BLAW 202	Introduction to Business Law	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	1110	Introduction to Business	3	BUS 101	Introduction to Business	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	1180	Business Math	3	BUS 103	Business Mathematics	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	1210	Records Management	3	BUS 110	Record Management	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	1310	Office Procedures	3	BUS 203	Office Systems (P)	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	2110	Business Communications	3	BUS 221	Business Communications	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	2180	Introduction to E-Commerce	3	MKT 215	E-Commerce	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	2340	Sales	3	BUS 225	Principles of Salesmanship	3
<b>BUSINESS ADMINISTRATION</b>	BUSA	2995	Cooperative Work Experience	1-3	BUS 290	Internship in Applied Business (P)	1-3
<b>BUSINESS ADMINISTRATION</b>	BUSA	2996	Internship in Business Administration	1-3	BUS 190	Internship in Business (P)	1-3
<b>CHEMISTRY</b>	CHEM	1215C	General Chemistry I Lecture and Laboratory for STEM Majors	4	CHEM 115	Introduction to Chemistry I (P)	4
<b>CHEMISTRY</b>	CHEM	1216	General Chemistry	4	CHEM 113	General Chemistry (P)	4
<b>CHEMISTRY</b>	CHEM	1225C	General Chemistry II Lecture and Laboratory for STEM Majors	4	CHEM 116	Introduction to chemistry II (P)	4
<b>CRIMINAL JUSTICE</b>	CJUS	1110	Introduction to Criminal Justice	3	CRJU 102	Introduction to Criminal Justice	3
<b>CRIMINAL JUSTICE</b>	CJUS	1510	Handgun Training	1	CRJU 101	Handgun Training	1
<b>CRIMINAL JUSTICE</b>	CJUS	2140	Criminal Investigations	3	CRJU 141	Criminal Investigation	3
<b>CRIMINAL JUSTICE</b>	CJUS	1120	Criminal Law	3	CRJU 202	Criminal Law (P)	3
<b>COMMUNICATION</b>	COMM	1130	Public Speaking	3	COM 102	Public Speaking	3
<b>COMMUNICATION</b>	COMM	1150	Introduction to Mass Communication	3	COM 150	Internet Media I	3
<b>COMMUNICATION</b>	COMM	2120	Interpersonal Communication	3	COM 101	Interpersonal	3

EARLY CHILDHOOD EDUCATION	ECED	1110	Child Growth, Development, and Learning	3	ECE 104	Child Growth and Development	3
EARLY CHILDHOOD EDUCATION	ECED	1115	Health, Safety, and Nutrition	2	ECE 113	Health Safety and Nutrition	2
EARLY CHILDHOOD EDUCATION	ECED	1120	Guiding Young Children	3	ECE 265	Guiding Young Children	3
EARLY CHILDHOOD EDUCATION	ECED	1125	Assessment of Children and Evaluation of Programs	3	ECE 207	Assessment of Children and Evaluation	3
EARLY CHILDHOOD EDUCATION	ECED	1130	Family and Community Collaboration	3	ECE 106	Family and Community Collaboration	3
EARLY CHILDHOOD EDUCATION	ECED	2110	Professionalism	2	ECE 103	Professionalism	2
EARLY CHILDHOOD EDUCATION	ECED	2115	Introduction to Language, Literacy, and Reading	3	ECE 208	Introduction Reading, Lang. and Literacy	3
EARLY CHILDHOOD EDUCATION	ECED	2120	Curriculum Development through Play Birth through Age 4 (PreK)	3	ECE 111	Curriculum Development through Play Birth through Age 4 (C)	3
EARLY CHILDHOOD EDUCATION	ECED	2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum	2	ECE 112	Practicum (Birth through Age 4)	2
EARLY CHILDHOOD EDUCATION	ECED	2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3	ECE 214	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
EARLY CHILDHOOD EDUCATION	ECED	2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2	ECE 215	Practicum for Curriculum Development and Implementation Age 3 (PreK) through Grade 3	2
ECONOMICS	ECON	1110	Survey of Economics	3	ECON 100	Applied Economics/Governmental Roles	3
ECONOMICS	ECON	2110	Macroeconomic Principles	3	ECON 251	Macroeconomics (P)	3
ECONOMICS	ECON	2120	Microeconomic Principles	3	ECON 252	Microeconomics	3
ECONOMICS	ECON	2210	International Economics	3	ECON 261	International Economics	3
EDUCATION	EDUC	1120	Introduction to Education	3	EDU 110	Introduction to Education	3
EDUCATION	EDUC	1190	Introduction to Education Practicum	3	EDU 222	Structured Observations of Teaching (P)	3
EDUCATION	EDUC	2110	Foundations of Education	3	EDU 202	Foundations of Education	3
EDUCATION	EDUC	2320	Educational Community	3	EDU 203	The Educational Community	3
EDUCATION	EDUC	2325	Student Outcomes Assessment	3	EDU 204	Student Outcomes Assessment	3
EDUCATION	EDUC	2330	The Effective Classroom	3	EDU 205	The Effective Classroom	3
EDUCATION	EDUC	2335	Reading Assessment	3	EDU 206	Reading Assessment	3
EDUCATION	EDUC	2340	Multicultural Education	3	EDUC 220		3
ENGLISH	ENGL	1110	Composition I	3	ENG 102	English Composition	3
ENGLISH	ENGL	1120	Composition II	3	ENG 104	English Composition and Research	3
ENGLISH	ENGL	1410	Introduction to Literature	3	ENG 211	Introduction to Literature	3
ENGLISH	ENGL	2120	Intermediate Composition	3	ENGL 2120	Intermediate Composition	3
ENGLISH	ENGL	2130	Advanced Composition	3	ENG 235	Advanced Composition	3
ENGLISH	ENGL	2210	Professional & Technical Communication	3	ENG 233	Professional and Technical Writing (P)	3
ENGLISH	ENGL	2310	Introduction to Creative Writing	3	ENG 269	Creative Writing	3
ENGLISH	ENGL	2350	Introduction to Drama	3	ENG 201C	Types of Literature: Drama	3
ENGLISH	ENGL	2360	Introduction to Poetry	3	ENG 201D	Types of Literature: Poetry	3
ENGLISH	ENGL	2370	Introduction to the Novel	3	ENG 201B	Types of Literature: Novel	3
ENGLISH	ENGL	2380	Introduction to Short Fiction	3	ENG 201A	Types of Literature: Short Story	3
ENGLISH	ENGL	2520	Film as Literature	3	ENG 275	The Motion Picture	3
ENGLISH	ENGL	2550	Introduction to Southwest Literature	3	ENG 270	Southwest Literature	3
ENGLISH	ENGL	2580	Science Fiction	3	ENG 201E	Types of Literature: Science Fiction	3
ENGLISH	ENGL	2610	American Literature I	3	ENGL 2610	American Literature I	3
ENGLISH	ENGL	2630	British Literature I	3	ENG 221	British Literature Survey I	3

ENGLISH	ENGL	2650	World Literature I	3	ENGL 2650	World Literature I	3
ENGLISH	ENGL	2680	Women's Literature	3	ENG 271	Women in Literature	3
ENGLISH	ENGL	2993	Workshop In English	1-3	ENG 268		1-3
ENGLISH	ENGL	2993	Workshop In English: Grant Writing	1-3	ENG 268A	Workshop In English: Grant Writing	3
ENGLISH	ENGL	2994	Experiential Learning Portfolio	3	ENG 210	Experiential Learning Portfolio (P)	3
ENGLISH	ENGL	2996	Topics In English	1-3	ENG 293	Special Topics In English	1-3
ENGLISH	ENGL	2997	Independent Study In English	1-3	ENG 289	Independent Study In English (P)	1-3
ENGLISH	ENGL	2998	Internship	1-6	ENG 290	Internship In Applied English	1-6
ENGLISH	ENGL	2999	Capstone Portfolio Course	1	ENG 299	Capstone Portfolio Course	1
ENTREPRENEURSHIP	ENTR	2110	Small Business Management	3	MGT 115	Small Business Management	3
ENTREPRENEURSHIP	ENTR	2996	Topics In Entrepreneurship	1-3	BUS 293	Special Topics In Business	1-3
FARRIER SCIENCE	FASC	1110	Horseshoeing Theory I	3	FAS 111	Horseshoeing Theory I	3
FARRIER SCIENCE	FASC	1120	Horseshoeing Theory II	3	FAS 112	Horseshoeing Theory II (P)	3
FARRIER SCIENCE	FASC	1210	Horseshoeing Laboratory I	3	FAS 121	Horseshoeing Laboratory I	3
FARRIER SCIENCE	FASC	1220	Horseshoeing Lab II	3	FAS 122	Horseshoeing Laboratory II (P)	3
FARRIER SCIENCE	FASC	1310	Blacksmithing I	3	FAS 131	Blacksmithing I	3
FARRIER SCIENCE	FASC	1320	Blacksmithing II	3	FAS 132	Blacksmithing II (P)	3
FARRIER SCIENCE	FASC	1710	Specialty Horseshoeing	3	FAS 171	Specialty Horseshoeing I	3
FARRIER SCIENCE	FASC	1996	Special Topics In Farrier Science	3	FAS 293	Special Topics In Farrier Science	3
FARRIER SCIENCE	FASC	1998	Internship In Farrier Science I	3	FAS 190	Internship In Farrier Science	3
FARRIER SCIENCE	FASC	2000	Certification Preparation	1-4	FAS 200	Certification Preparation	1-4
FARRIER SCIENCE	FASC	2230	Farrier Science Therapeutics	3	FAS 223	Farrier Science Therapeutics (P)	3
FARRIER SCIENCE	FASC	2330	Farrier Craftsmanship Therapeutics	3	FAS 233	Farrier Craftsmanship Therapeutics (P)	3
FARRIER SCIENCE	FASC	2530	Lameness Physiology	3	FAS 253	Lameness Physiology (P)	3
FARRIER SCIENCE	FASC	2997	Independent Study In Farrier Science	2	FAS 289	Independent Study In Farrier Science	2
FARRIER SCIENCE	FASC	2998	Internship In Applied Farrier Science II	3	FAS 290	Internship In Applied Farrier Science	3
FARRIER SCIENCE	FASC	2999	Farrier Science Capstone Course	4	FAS 224	Farrier Science Specialty (P)	4
FILM & DIGITAL MEDIA ARTS	FDMA	1515	Introduction to Digital Image Editing - Photoshop	4	CIS 155	Introduction to Photoshop	4
FILM & DIGITAL MEDIA ARTS	FDMA	1535	Introduction to Illustrator	4	CIS 125	Introduction to Illustrator	4
FILM & DIGITAL MEDIA ARTS	FDMA	1570	Game Design Analysis	3	ART 206	History of Video Games and Interactive Media	3
FILM & DIGITAL MEDIA ARTS	FDMA	1720	3-D Character Design	3	ART 184	3-D Character Design	3
FILM & DIGITAL MEDIA ARTS	FDMA	2290	Advanced Digital Projects	3	FDMA 2290	Advanced Digital Projects	3
FILM & DIGITAL MEDIA ARTS	FDMA	2381	Storyboarding	3	ART 182	Storyboarding	3
FILM & DIGITAL MEDIA ARTS	FDMA	2530	Introduction to 3D Modeling	4	ART 265	Introduction to 3D Modeling	4
FILM & DIGITAL MEDIA ARTS	FDMA	2532	Introduction to 3D-Printing	3	ART 117	Introduction to 3D-Printing	3
FILM & DIGITAL MEDIA ARTS	FDMA	2534	3D Modeling Sculpture	3	ART 245	3D Modeling Sculpture	3
FILM & DIGITAL MEDIA ARTS	FDMA	2710	Beginning 2-D Animation	3	ART 183	Beginning 2-D Animation	3
FILM & DIGITAL MEDIA ARTS	FDMA	2720	3-D Animation	4	ART 270	Computer 3D Animation	4
FILM & DIGITAL MEDIA ARTS	FDMA	2730	Advanced Character Animation	3	ART 218	Advanced Character Animation	3
FILM & DIGITAL MEDIA ARTS	FDMA	2760	Intro to Game Development	3	ART 180	Intro to Game Development	3
GEOGRAPHY	GEOG	1120	World Regional Geography	3	GEOG 110	World Regional Geography	3

<b>GEOGRAPHY</b>	<b>GEDG</b>	<b>1130</b>	<b>Human Geography</b>	<b>3</b>	<b>GEDG 101</b>	<b>Introduction to Human Geography</b>	<b>3</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1110</b>	<b>Physical Geology</b>	<b>4</b>	<b>GEOL 151</b>	<b>Physical Geology</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1120</b>	<b>Environmental Geology</b>	<b>4</b>	<b>GEDL 230</b>	<b>Environmental Geology (P)</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1122</b>	<b>Introduction to Environmental Science</b>	<b>4</b>	<b>GEOL 141</b>	<b>Environmental Science</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1130</b>	<b>Dinosaurs and Their World</b>	<b>4</b>	<b>GEDL 125</b>	<b>Dinosaurs</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1140</b>	<b>Geological Disasters</b>	<b>4</b>	<b>GEOL 175</b>	<b>Natural Disasters</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1150</b>	<b>Introduction to Rocks &amp; Minerals</b>	<b>1</b>	<b>GEDL 101</b>	<b>Introduction to Rocks &amp; Minerals</b>	<b>1</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1155</b>	<b>Introduction to Museum Science</b>	<b>4</b>	<b>GEOL 105</b>	<b>Introduction to Museum Science</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1160</b>	<b>Introduction to Field Paleontology</b>	<b>4</b>	<b>GEDL 111</b>	<b>Introduction to Field Paleontology</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1310</b>	<b>Paleontology Field Expedition</b>	<b>4</b>	<b>GEOL 118</b>	<b>Paleontology Field Exploration</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1320</b>	<b>Paleontology Field Discovery</b>	<b>4</b>	<b>GEDL 120</b>	<b>Paleontology Field Discovery</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1330</b>	<b>Paleontology Field Exploration</b>	<b>4</b>	<b>GEOL 122</b>	<b>Paleontology Field Exploration</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>1990</b>	<b>Triassic Vertebrate Practicum</b>	<b>2</b>	<b>GEDL 124</b>	<b>Triassic Vertebrate Practicum</b>	<b>2</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>1998</b>	<b>Internship in Geology</b>	<b>1-10</b>	<b>GEOL 190</b>	<b>Internship in Geoscience (P)</b>	<b>1-10</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2110</b>	<b>Historical Geology</b>	<b>4</b>	<b>GEDL 152</b>	<b>Historical Geology (P)</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2130</b>	<b>Introduction to Meteorology</b>	<b>4</b>	<b>GEOL 251</b>	<b>Meteorology and Global Environ Change</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2145</b>	<b>History of Life</b>	<b>4</b>	<b>GEDL 210</b>	<b>History of Life (P)</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2155</b>	<b>Theory and Praxis of Museum Science</b>	<b>4</b>	<b>GEOL 205</b>	<b>Theory and Praxis of Museum Science</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2210</b>	<b>Geology of Southwestern New Mexico &amp; Western Texas</b>	<b>3-4</b>	<b>GEDL 293J</b>	<b>Special Topics in Geology</b>	<b>3-4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2220</b>	<b>Triassic Vertebrates from the American Southwest</b>	<b>3-4</b>	<b>GEOL 293K</b>	<b>Special Topics in Geology</b>	<b>3-4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2230</b>	<b>Dinosaurs of Colorado</b>	<b>3-4</b>	<b>GEDL 293G</b>	<b>Special Topics in Geology</b>	<b>3-4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2240</b>	<b>Dawn of the Age of Dinosaurs</b>	<b>3-4</b>	<b>GEOL 293I</b>	<b>Special Topics in Geology</b>	<b>3-4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2250</b>	<b>Volcanoes and Dinosaurs in Northwestern New Mexico and Colorado</b>	<b>3-4</b>	<b>GEDL 293M</b>	<b>Special Topics in Geology</b>	<b>3-4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2260</b>	<b>Geology of the American Southwest</b>	<b>4</b>	<b>GEOL 220</b>	<b>Geology of the Southwest</b>	<b>4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2910</b>	<b>Research in Natural Sciences I</b>	<b>2</b>	<b>GEDL 235</b>	<b>Research in Natural Sciences I</b>	<b>2</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2920</b>	<b>Research in Natural Sciences II</b>	<b>2</b>	<b>GEOL 236</b>	<b>Research in Natural Sciences II</b>	<b>2</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2991</b>	<b>Directed Study in Geoscience</b>	<b>1-4</b>	<b>GEDL 291</b>	<b>Directed Study in Geoscience (P)</b>	<b>1-4</b>
<b>GEOLOGY</b>	<b>GEOL</b>	<b>2997</b>	<b>Independent Study in Geoscience</b>	<b>1-4</b>	<b>GEOL 289</b>	<b>Independent Study in Geoscience (P)</b>	<b>1-4</b>
<b>GEOLOGY</b>	<b>GEDL</b>	<b>2998</b>	<b>Internship</b>	<b>1-10</b>	<b>GEDL 290</b>	<b>Internship in Applied Geoscience (P)</b>	<b>1-10</b>
<b>HISTORY</b>	<b>HIST</b>	<b>1110</b>	<b>United States History I</b>	<b>3</b>	<b>HIST 101</b>	<b>Survey of American History to 1877</b>	<b>3</b>
<b>HISTORY</b>	<b>HIST</b>	<b>1120</b>	<b>United States History II</b>	<b>3</b>	<b>HIST 102</b>	<b>Survey of American History Since 1877</b>	<b>3</b>
<b>HISTORY</b>	<b>HIST</b>	<b>1150</b>	<b>Western Civilization I</b>	<b>3</b>	<b>HIST 121</b>	<b>Survey of Western Civilization I</b>	<b>3</b>
<b>HISTORY</b>	<b>HIST</b>	<b>1160</b>	<b>Western Civilization II</b>	<b>3</b>	<b>HIST 122</b>	<b>Survey of Western Civilization II</b>	<b>3</b>
<b>HISTORY</b>	<b>HIST</b>	<b>2110</b>	<b>Survey of New Mexico History</b>	<b>3</b>	<b>HIST 203</b>	<b>New Mexico History</b>	<b>3</b>
<b>HEALTH EDUCATION</b>	<b>HLED</b>	<b>1130</b>	<b>Concepts of Health &amp; Wellness</b>	<b>3</b>	<b>HPE 127, 201</b>	<b>Introduction to Health and Wellness, Health and Wellness</b>	<b>1 3</b>
<b>HEALTH SCIENCE</b>	<b>HLSC</b>	<b>1030</b>	<b>Medical Technology</b>	<b>3</b>	<b>AHS 103</b>	<b>Medical Technology</b>	<b>3</b>
<b>HEALTH SCIENCE</b>	<b>HLSC</b>	<b>1110</b>	<b>Introduction to Health Science</b>	<b>3</b>	<b>HS 101</b>	<b>Introduction to Health Science</b>	<b>3</b>
<b>HEALTH SCIENCE</b>	<b>HLSC</b>	<b>1210</b>	<b>Medical Career Exploration</b>	<b>3</b>	<b>HS 211</b>	<b>Medical Career Exploration</b>	<b>3</b>
<b>HEALTH SCIENCE</b>	<b>HLSC</b>	<b>1310</b>	<b>Dental Career Exploration</b>	<b>3</b>	<b>HS 212</b>	<b>Dental Career Exploration</b>	<b>3</b>



HEALTH SCIENCE	HLSC	1410	Veterinary Career Exploration	3	HS 213	Veterinary Career Exploration	3
HUMAN SERVICES	HMSV	1110	Group Dynamics	3	HMSV 1110	Group Dynamics	3
HUMAN SERVICES	HMSV	1120	Interviewing Techniques	3	HMSV 1120	Interviewing Techniques	3
HUMAN SERVICES	HMSV	2140	Introduction to Alcohol and Drug Abuse	3	SW 252		3
HUMAN SERVICES	HMSV	2213	Co-Occurring Disorders	3	HMSV 2213	Co-Occurring Disorders	3
HUMAN SERVICES	HMSV	2230	Alcohol & Drug Abuse Counseling: Special Populations	3	HMSV 2230	Alcohol & Drug Abuse Counseling: Special Populations	3
HUMAN SERVICES	HMSV	2270	Substance Abuse in Families	3	SW 251		3
HUMAN SERVICES	HMSV	2280	Substance Abuse Prevention	3	HMSV 2280	Substance Abuse Prevention	3
HUMAN SERVICES	HMSV	2998	Internship	3	SW 290	Internship in Social Welfare	3
MATH	MATH	1110	Math for Teachers I	3	MATH 261	Mathematics for Elementary Teachers	3
MATH	MATH	1130	Survey of Mathematics	4	MATH 108	A Survey of Mathematics	4
MATH	MATH	1215	Intermediate Algebra	3	MATH 107	Intermediate Algebra	3
MATH	MATH	1220	College Algebra	4	MATH 110	College Algebra	4
MATH	MATH	1230	Trigonometry	3	MATH 112	Trigonometry (P)	3
MATH	MATH	1350	Introduction to Statistics	4	STAT 213	Statistical Methods	4
MATH	MATH	1430	Applications of Calculus I	3	MATH 141	Elements of Calculus I (P)	3
MATH	MATH	1440	Applications of Calculus II	3	MATH 142	Elements of Calculus II	3
MATH	MATH	1512	Calculus I	4	MATH 162	Calculus I	4
MANAGEMENT	MGMT	2110	Principles of Management	3	MGT 212	Principles of Management	3
MARKETING	MKTG	1210	Advertising	3	MKT 130		3
MARKETING	MKTG	2110	Principles of Marketing	3	MKT 216	Principles of Marketing	3
MARKETING	MKTG	2210	Agricultural Marketing	3	ADM 265	Agricultural Marketing	3
MUSIC	MUSC	1130	Music Appreciation: Western Music	3	MUS 101	Music Appreciation	3
NUTRITION	NUTR	1110	Nutrition for Health	3	AHS 110	Fundamentals of Nutrition	3
PHYSICAL EDUCATION	PHED	1110	Dance: Aerobic Dance	1	HPE 107, 108	Aerobics: Low Impact, Aerobic Workout	1
PHYSICAL EDUCATION	PHED	1110	Dance: Country & Western Dancing	1	HPE 111	Country and Western Dancing	1
PHYSICAL EDUCATION	PHED	1140	Zumba	1	HPE 142, 143	Zumba I, Zumba II	1
PHYSICAL EDUCATION	PHED	1160	The Art of Dancing	1	HPE 109	The Art of Dancing	1
PHYSICAL EDUCATION	PHED	1230	Individual Sport: Beginning Bowling	1	HPE 112	Beginning Bowling	1
PHYSICAL EDUCATION	PHED	1230	Individual Sport: Boxing	1	HPE 146	Boxing Conditioning	1
PHYSICAL EDUCATION	PHED	1230	Individual Sport: Golf	1	HPE 116	Learning Golf	1
PHYSICAL EDUCATION	PHED	1230	Individual Sport: Tennis	1	HPE 102	Applications of Tennis	1
PHYSICAL EDUCATION	PHED	1230	Individual Sport: Ultimate Frisbee	1	HPE 144	Ultimate Frisbee	1
PHYSICAL EDUCATION	PHED	1290	Team Sport: Soccer	1	HPE 101	Fundamentals of Soccer	1
PHYSICAL EDUCATION	PHED	1310	Swim I: Beginning Swimming	1	HPE 103	Swim for Fitness	1
PHYSICAL EDUCATION	PHED	1320	Aqua Fit: Swimming for Fitness	1	HPE 104	Swim for Fitness	1
PHYSICAL EDUCATION	PHED	1320	Aqua Fit: Water Aerobics	1	HPE 106	Water Workout	1
PHYSICAL EDUCATION	PHED	1430	Pilates	1	HPE 132	Pilates Style Mat Training	1
PHYSICAL EDUCATION	PHED	1460	Conditioning:	1	HPE 128208	Individual Health and Conditioning, Strategies of Conditioning	1
PHYSICAL EDUCATION	PHED	1510	Training: Body Sculpting	1	HPE 222	Body Sculpting	1

PHYSICAL EDUCATION	PHED	1510	Training: Bootcamp	1	HPE 137	Busy Body Bootcamp	1
PHYSICAL EDUCATION	PHED	1510	Training: Circuit Training	1	HPE 129	Circuit Training	1
PHYSICAL EDUCATION	PHED	1510	Training: Kickboxing	1	HPE 119	Cardio Kickboxing	1
PHYSICAL EDUCATION	PHED	1510	Training: Resistance Training	1	HPE 105	Fundamentals of Weight Lifting	1
PHYSICAL EDUCATION	PHED	1510	Training: Resistance Training for Women	1	HPE 126	Wight Lifting for Women	1
PHYSICAL EDUCATION	PHED	1620	Fitness: Fitness for Older Adults	1	HPE 145	Fitness for Older Adults	1
PHYSICAL EDUCATION	PHED	1620	Fitness: Personal Training Assessment	1	HPE 123	Personal Training Assessment	1
PHYSICAL EDUCATION	PHED	1620	Fitness: Quick Start Fitness Program	1	HPE 180	Quick Start Fitness Program	1
PHYSICAL EDUCATION	PHED	1620	Fitness: Walking for Fitness	1	HPE 117	Walking for Fitness	1
PHYSICAL EDUCATION	PHED	1710	Martial Arts: Judo	1	HPE 113	The Art of Judo	1
PHYSICAL EDUCATION	PHED	1710	Martial Arts: Tae Kwon Do	1	HPE 225	Introduction to Tae-Kwon-Do	1
PHYSICAL EDUCATION	PHED	1910	Outdoor Experience: Fly Fishing	1	HPE 115	Fly-Fishing	1
PHYSICAL EDUCATION	PHED	1950	Rodeo: Fundamentals of Men's Timed Events	2	HPE 170	Fundamentals of Men's Timed Events	2
PHYSICAL EDUCATION	PHED	1950	Rodeo: Fundamentals of Rodeo	1	HPE 114	Fundamentals of Rodeo	1
PHYSICAL EDUCATION	PHED	1950	Rodeo: Fundamentals of Rough Stock Riding	1	HPE 150	Fundamentals of Rough Stock Riding	1
PHYSICAL EDUCATION	PHED	1950	Rodeo: Fundamentals of Steer Wrestling	1	HPE 133	Fundamentals of Steer Wrestling	1
PHYSICAL EDUCATION	PHED	1950	Rodeo: Fundamentals of Women's Rodeo Events	1	HPE 160	Fundamentals of Women's Events	1
PHYSICAL EDUCATION	PHED	2996	Topics in Physical Education	1-3	HPE 293	Special Topics: Yoga/Pilates Combo	1-3
PHILOSOPHY	PHIL	2150	Morality and Society	3	PHIL 201	Introduction to Philosophy	3
PHILOSOPHY	PHIL	2230	Philosophical Thought	3	PHIL 202	Ethics	3
PHYSICS	PHYS	1115C	Survey of Physics with Laboratory	4	PHYS 115	Introduction to Physics (P)	4
PHYSICS	PHYS	1230C	Algebra-based Physics I Lecture + Laboratory	4	PHYS 201L	College Physics I (P)	4
PHYSICS	PHYS	1240	Algebra-based Physics II Lecture + Laboratory	4	PHYS 202L	College Physics II (P)	4
PSYCHOLOGY	PSYC	1110	Introduction to Psychology	3	PSY 101	Introductory Psychology	3
PSYCHOLOGY	PSYC	1150	Human Relations	3	PSY 102	Human Relations	3
PSYCHOLOGY	PSYC	2120	Developmental Psychology	3	PSY 104	Growth and Development	3
PSYCHOLOGY	PSYC	2210	Abnormal Psychology	3	PSY 202	Abnormal Psychology	3
PSYCHOLOGY	PSYC	2230	Psychology of Adjustment	3	PSY 134	Psychology of Adjustment	3
PSYCHOLOGY	PSYC	2290	Principles of Treatment	3	PSY 205	Principles of Treatment	3
PSYCHOLOGY	PSYC	2310	Drugs and Behavior	3	PSY 200	Drugs and Behavior (P)	3
PSYCHOLOGY	PSYC	2325	Prevention of Drug and Alcohol Abuse	3	PSY 206	Prevention of Drug and Alcohol Abuse	3
RELIGION	RELG	1123	Hebrew Bible	3	REL 101	Old Testament	3
RELIGION	RELG	1126	New Testament	3	REL 103	New Testament	3
RELIGION	RELG	2130	History of Christianity	3	REL 231	History of the Christian Church	3
RELIGION	RELG	2140	The Book of Acts	3	REL 211	The Acts of the Apostles	3
RELIGION	RELG	2520	Jesus and the School of Healing	3	REL 106		3
RELIGION	RELG	2525	Beliefs and Believers	3	REL 293a	Special Topics: Beliefs and Believers	3
RANGE SCIENCE	RGSC	2110	Introduction to Rangeland Management	3	RGSC 294	Range Management	3
RENEWABLE ENERGY	RNBL	1010	Introduction to Renewable Energy	3	WET 100	Introduction to Renewable Energy	3
RENEWABLE ENERGY	RNBL	1060	Electrical Theory for Renewable Energy	4	WET 106	Electrical Theory for Renewable Energy	4

RENEWABLE ENERGY	RNBL	1150	Field Safety and Experience	3	WET 115	Field Safety and Experience	3
RENEWABLE ENERGY	RNBL	1160	Introduction to Motors and Generators	3	WET 116	Introduction to Motors and Generators	3
RENEWABLE ENERGY	RNBL	1210	Wind Turbine Mechanical Systems	3	WET 121	Wind Turbine Mechanical Systems	3
RENEWABLE ENERGY	RNBL	1400	Wind Turbine Climbing and Safety I	1	WET 140	Wind Turbine Climbing and Safety I	1
RENEWABLE ENERGY	RNBL	1410	Wind Turbine Climbing and Safety II	1	WET 141	Wind Turbine Climbing and Safety II	1
RENEWABLE ENERGY	RNBL	1993	Renewable Energy Workshop	3	WET 130	Renewable Energy Applied	3
RENEWABLE ENERGY	RNBL	2040	Introduction to Hydraulics	3	WET 204	Introduction to Hydraulics	3
RENEWABLE ENERGY	RNBL	2180	Wind Turbine Electronics	4	WET 218	SCADA and Electronics of Wind Turbines	4
SOCIOLOGY	SOCI	1110	Introduction to Sociology	3	SOC 101	Introductory Sociology	3
SOCIOLOGY	SOCI	1345	Cultural Diversity	3	SOC 103	Cultural Diversity	3
SOCIOLOGY	SOCI	1350	Rural America	3	SOC 105	Rural America	3
SOCIOLOGY	SOCI	2225	Introduction to Women's Studies	3	SOC 217	Introduction to Women's Studies	3
SOCIOLOGY	SOCI	2226	Empowering Women	3	SOC 218	Empowering Women	3
SOCIOLOGY	SOCI	2240	Sociology of Intimate Relationships and Family	3	SOC 215	Marriage and the Family	3
SOCIOLOGY	SOCI	2260	Sociology of Aging	3	SOC 223	Sociology of Aging	3
SOCIOLOGY	SOCI	2310	Contemporary Social Problems	3	SOC 212	Contemporary Social Issues	3
SOCIOLOGY	SOCI	2330	Society and Personality	3	SOC 115	Marriage and the Family	3
SOCIOLOGY	SOCI	2345	Cultural Diversity	3	SOC 103	Cultural Diversity	3
SOCIAL WORK	SOWK	2110	Introduction to Human Services and Social Work	3	SW 218	Introduction to Social Welfare	3
SPANISH	SPAN	1110	Spanish I	3	SPAN 101	Beginning Spanish I	3
SPANISH	SPAN	1120	Spanish II	3	SPAN 102	Beginning Spanish II (P)	3
SPANISH	SPAN	2110	Spanish III	3	SPAN 201	Intermediate Spanish I (P)	3
SPANISH	SPAN	2120	Spanish IV	3	SPAN 202	Intermediate Spanish II (P)	3
THEATER	THEA	1110	Introduction to Theater	3	THTR 101	Introduction to Theater	3

# College Directory

## Mesalands Community College

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M.A., New Mexico Highlands University  
B.A., New Mexico Highlands University  
Bobbitt, Chester, *Maintenance Custodial Supervisor*  
Kaatz, Forrest, *Director of Institutional Research and Development*  
Ph.D., University of Pennsylvania  
M.S., University of Pennsylvania  
B.S., University of WI-Madison  
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A.A.S., Mesalands Community College  
Monahan, Loni *Director of Mesalands Community College's Dinosaur Museum and Natural Science Laboratory*  
A.A., Colorado State College  
Garcia, Dean, *Director of Educational Services Center*  
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A.A., Mesalands Community College  
Wickham, Larry, *Director of Institutional Technology*  
Chand, Asia, *Manager of College Stores*  
B.A., University of the Punjab

### Faculty

Chavez, Sylviano, *Faculty, Fine Arts*  
Encinias, Adan *Faculty, Animal Science*  
PhD., North Dakota State University

M.S., New Mexico State University  
B.S., New Mexico State University  
Fries, Shannon, *Faculty, Director of Nursing and Education*  
M.S., Regis University  
B.S., University of Pheonix  
Garcia, Donna, *Faculty, Social Work*  
M.S.W., New Mexico Highlands University  
B.S.W., New Mexico Highlands University  
A.A., Mesalands Community College  
Griffiths, Janet, *Faculty, Pre-Collegiate*  
M.H.Ec., Colorado State University  
B.S., New Mexico State University  
Howard, Gregg, *Faculty, English/ Communications*  
M.F.A., Arizona State University  
B.A., Arizona State University  
Hungerbuehler, Axel, *Faculty, Natural Sciences/Museum Curator*  
Ph.D., University of Bristol  
M.Sc., University of Tübingen, Germany  
B.Sc., University of Tübingen, Germany  
Kaatz, Philip, *Faculty, Mathematics and Physical Science*  
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B.A., West Virginia University  
Klutznny, Simone, *Faculty, Biology*  
PhD., University of Bristol  
M.S., University of Bristol  
B.S., Karls University Tübingen  
Rasic, Milan, *Faculty, Health and Fitness*  
M.E., Highlands University  
Busch, Nicholas, *Faculty, Political Science*  
M.A. Ohio University









## Directions to the College

Mesalands Community College is located one block south of Historical Route 66 Boulevard at 911 South Tenth Street in Tucuman, New Mexico. Tucuman is

located in the eastern part of New Mexico, approximately 100 miles west of Amarillo, Texas, and 168 miles east of Albuquerque, New Mexico. Interstate Highway 40 and U.S. Highway 54 converge in Tucuman.

## Mesalands Community College Campus Map





## Mesalands Community College's Dinosaur Museum and Natural Sciences Laboratory (Building F), above

### **Building A**

Academic Affairs  
Administration Affairs  
Allied Health  
Board Room  
Business Office  
Career Services Center  
College Library  
Computer Laboratories  
Conference Facilities  
Distance Education  
Educational Services Center  
Financial Aid Office  
Health and Wellness Facility  
Off-Campus Programs  
Office of Enrollment Management  
Personnel  
Public Relations  
Recruiting  
Science Laboratory  
Student Affairs  
Student Commons  
Telecommunications Center

### **Building B**

Building Trades

### **Building C**

Artistic Silversmithing  
Maintenance  
Small Business Development Center  
Welding Laboratory

### **Building D**

Animal Science/Agri-Business  
Parrier Science  
Fine Arts  
Intercollegiate Rodeo

### **Building E**

North American Wind Research and Training Center  
Wind Energy Technology

### **Building F**

Mesalands Community College's Dinosaur Museum  
Natural Sciences Laboratory  
Museum Shop  
Classrooms  
Located at 222 E. Laughlin St.

### **Building G**

Academic Building  
College Bookstore  
Computer Laboratory  
Institutional Development  
President's Office

### **Building H**

Horse Complex  
Rodeo Facilities

### **Stampede Village**

Student Housing Apartment Complex



**Where can I find out about...?**

**I have credit from another college and would like information about using that credit toward a degree at Mesalands.**

Mesalands Community College accepts transfer credit from other regionally accredited colleges and universities and recognizes the State of New Mexico General Education Common Core of Courses. For an appointment to have your transfer credit evaluated, contact the Office of Enrollment Management at (575) 461-4413, ext. 153.

**I need information about special accommodations for a disability.**

We currently have the privilege of working with many students having diverse challenges. Please contact our Student Services office at (575) 461-4413, ext. 189, for more information.

**What kind of financial assistance is available at Mesalands?**

In addition to offering Federal Financial Aid and New Mexico Legislative Lottery Scholarships, we can point you to many other sources of grants and scholarships. Call our Financial Aid office at (575) 461-4413, ext. 136, for details.

**I would like to receive additional information on a particular program at Mesalands.**

Call Student Services at (575) 461-4413, ext. 100. We'd be happy to mail a packet of information to you.

**Can I receive VA Benefits while attending Mesalands?**

All programs at Mesalands are approved by the Department of Veteran's Affairs. For information on how to apply for VA benefits, contact the Office of Enrollment Management at (575) 461-4413, ext. 153.

**How can I get help preparing for my high school equivalency (HSE)?**

Mesalands offers both the Pearson VUE and the High School Equivalency Tests (HiSET) and provides free preparation classes. Call our Educational Services Center for details at (575) 461-4413, ext. 124.

**I would like to receive a course schedule for the current or upcoming semester.**

To get on our mailing list, call Student Services at (575) 461-4413, ext. 100. You can also check the College WEB site at [www.mesalands.edu](http://www.mesalands.edu) and click on the course schedule/catalog link.

**How can I get information about how much a class will cost?**

Total cost for courses varies due to lab fees, residency status and other variables. To get specific information on course costs you may call our Business Office at (575) 461-4413, ext. 110.

**I need directions to the College.**

We have students who come from out of town, out of state, and even from other countries! If you are visiting or are new to our community, call (575) 461-4413, ext. 100, and we'll be glad to help you with directions to our campus.

**I intend to transfer to a four-year institution after attending Mesalands; will my courses transfer?**

As an accredited institution of The Higher Learning Commission, a Commission of the North Central Association of Colleges and Schools, Mesalands courses transfer to almost all four-year institutions. Plus, if you intend to enroll at a New Mexico university, your eligibility for the New Mexico Legislative Lottery scholarship will transfer with you! Call the Office of Enrollment Management at (575) 461-4413, ext. 153.

**How do I get on the rodeo team?**

An exciting facet of the College is our intercollegiate rodeo team. To find out how you can try out for the team, contact our Rodeo Coach at (575) 461-4413, ext. 157.

# Glossary

## Academic Integrity

A student earns grades based on individual effort and achievement.

## Academic Year

Thirty-two weeks from the fall semester through the spring semester.

## Add/Drop

Officially changing a class schedule during a specified time period.

## Admission

The formal process of applying to attend a college.

## Admission Status

The category (degree seeking, non-degree, concurrent) under which the student falls in order to start college.

## Adviser

A faculty member who assists a student in selecting classes, planning a college schedule, or choosing a degree plan. Adviser approval is required in selected courses and/or due to admission status requirements.

## Audit

Enrollment in a college class without having to turn in class work or take examinations. Students will receive no college credits for completion of the course.

## Catalog

The official booklet of the college listing policies, requirements, and procedures of the college, as well as general information about the college, admissions, financial aid, and academic programs.

## Class Schedule

A listing of all classes available for the upcoming semester, including days and times of class meetings, name of instructor, building and room, and other registration information.

## Consent of Instructor

The instructor's permission is required prior to enrollment in some classes. This requirement will be listed as an option for a prerequisite for taking the class.

## Core Curriculum

A specific group of courses required to obtain a particular degree or certificate.

## Co-requisite

A course required to be taken at the same time as another course.

## Credit Load

The limit of credit hours (18 in a regular semester, 9 during the summer) that a student may take without special permission from the Dean of Academic Affairs.

## Course Number

Identifies the level of the class; for example, ENGL 102 is the first level of transferrable English, while ENGL 104 is the next level.

## Counseling

Assistance in decisions involving educational planning, transfer options, career planning, and/or personal matters that affect educational pursuits.

## Credit Hour

The unit of credit received upon completion of a course.

## Cumulative Grade Point Average

The grade point average (GPA) on all course work completed in college, excluding pre-collegiate courses (see "Grade Point Average").

## Curriculum

The approved courses required for a specific degree or certificate.

## Educational Plan of Study

A prescribed set of courses that must be completed to earn a degree in a specific field.

## Domicile

Legal residence for purposes of tuition payment.

## Dual Enrollment

Enrollment in college courses at Mesalands Community College while a student is also enrolled in an area high school and the student is taking course work that counts both toward high school graduation and for college credit.

## Elective

A course that may be selected from a student's area of interest.

## Enrollment

The process of registering and/or paying tuition and fees.

## Faculty

The instructors at the college.

## Fees

Money charged in addition to tuition.

## Financial Aid

Grants, workstudy funds, scholarships, loans, and government assistance received by students to assist in meeting college expenses.

## Full-Time Student

A student enrolled in 15 or more credit hours during a regular semester.

## Grade Point Average (GPA)

The grade point average is calculated as follows, where A = 4, B = 3, C = 2, D = 1, F = 0: multiply the number of credits by the points assigned to the letter grade for each class (e.g., "A" = 4 grade points x 3 credits = 12; "B" = 3 grade points x 3 credits = 9), add the total points (e.g., 12 + 9 = 21), and divide by the total number of credits (e.g., 21/6 = 3.5 = "B" average).

**Grades**

The system used for evaluating a student's progress in meeting the requirements of a class.

**Graduation with Honors**

Honors graduates, degree and diploma students with high grade point averages in all college work completed at Mesalands Community College, will be recognized at commencement ceremonies for Graduating with Honors. They will wear gold tassels and be presented with gold honors cords. Honors are as follows: Summa Cum Laude, CGPA of 3.80 or higher; Magna Cum Laude, CGPA of 3.50 to 3.79; Cum Laude, 3.25 to 3.49. (Pre-collegiate courses are not included.)

**Orientation**

A session that introduces a new student to the college, campus resources, the student handbook, and the faculty and staff.

**Part-Time Student**

A student taking fewer than 15 credit hours during a regular semester.

**Placement Testing**

Used to determine the student's level in math, English, and reading. Placement tests must be taken before a student can enroll in math and English classes, or begin a diploma or degree program.

**Pre-collegiate classes**

Courses in English, reading, and math, which do not count toward graduation, but which meet the student's need to prepare for college level classes. The Success Assessment/Placement test determines the level at which a student is advised to begin.

**Prerequisite**

A course or condition that must be completed in order to take a certain class.

**President's Citation**

Recognition of a student who has maintained a GPA of 3.75 or better and has successfully completed 30 or more credits in the fall/spring semesters (excluding pre-collegiate courses) with no grade below a "C" and no outstanding grades of "T" in the given year.

**Registration**

The process of registering for classes but not paying tuition/fees.

**Residency**

The state or country of legal residence.

**Seminar**

A class in which the instructor usually leads discussions and all students participate.

**Syllabus**

A list of class requirements given to the student by the teacher during the first week of class, detailing the work to be completed to pass the class and obtain a certain grade.

**Transcript**

An official record of college work maintained at each college attended.

**Transfer Credit**

Classes and/or credits completed at one college that another college will accept.

**Tuition**

The money paid for college courses. Tuition does not cover costs for additional fees and books.

**Vice President's List**

Recognition of a full-time student who has maintained a GPA of 3.5 or better during a regular semester, excluding pre-collegiate courses.

**Withdrawal from a Course**

Disenrollment from a class, without academic penalty, within a specified time period.



# INDEX

Index provides a quick reference for specific words as well as common phrases and titles.

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# NOTES

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## **MESALANDS COMMUNITY COLLEGE**

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