

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 202	Principles of Accounting I	3
BUS 101	Introduction to Business	3
ENG 102	English Composition	3
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
CREDITS		15

SPRING		CREDITS
ACCT 210	Principles of Accounting II	3
BUS 221	Business Communications	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Science Requirement	4
CREDITS		17

SECOND YEAR

FALL		CREDITS
BUS	Business Elective	3
COM 102	Public Speaking	3
ECON 251	Macro Economics	3
	Humanities/Fine Arts Requirement	3
MGT 212	Principles of Management	3
CREDITS		15

SPRING		CREDITS
BLAW 202	Introduction to Business Law	3
ECON 252	Micro Economics	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
ENG 299	Capstone Portfolio Course	1
CREDITS		14

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

FALL		CREDITS
EDU 110	Introduction to Education	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Humanities/Fine Arts Requirement	3
	Science Requirement	4

CREDITS 14

SPRING		CREDITS
COM 102	Public Speaking	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
SPAN 101	Beginning Spanish	3

CREDITS 16

SECOND YEAR

FALL		CREDITS
ENG	English 200 level elective	3
HPE	HPE Elective	1
	Humanities/Fine Arts Requirement	3
PSY 104	Growth and Development	3
SPAN 102	Beginning Spanish II	3
	Social/Behavioral Science Requirement	3

CREDITS 16

SPRING		CREDITS
EDU 222	Structured Observations in Teaching	3
HIST 203	New Mexico History	3
HIST	History Elective	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
ENG 299	Capstone Portfolio Course	1

CREDITS 14

TOTAL CREDITS 60

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

FALL		CREDITS
ECE 104	Child Growth, Development, and Learning	3
ECE 106	Family and Community Collaboration	3
ENG 102	English Composition	3
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
CREDITS		15

SPRING		CREDITS
ECE 113	Health Safety and Nutrition	2
ECE 265	Guiding Young Children	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
CREDITS		15

SECOND YEAR

FALL		CREDITS
ECE 103	Professionalism	2
ECE 111	Curriculum Development through Play - (Birth Through Age Four)	3
ECE 112	Practicum (Birth Through Age 4)	2
ECE 207	Assessment of Children and Evaluation of Program	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
CREDITS		17

SPRING		CREDITS
COM 102	Public Speaking	3
ECE 209	Introduction to Language, Literacy and Reading	3
ECE 214	Curriculum Development and Implementation (Age 3 through Grade 3)	3
ECE 215	Practicum (Age 3 through Grade 3)	2
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods or	
MATH 261	Math for Elementary Teachers	3
ENG 299	Capstone Portfolio Course	1
CREDITS		15/16

TOTAL CREDITS 62/63

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

FALL		CREDITS
EDU 110	Introduction Education	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
CREDITS		13

SPRING		CREDITS
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
HIST	History 101 or History 102	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
ENG	English 200 level elective	3
HIST	History 121 or 122	3
HPE	HPE Elective	1
MATH 261	Math for Elementary Teachers	3
PSY 104	Growth and Development	3
	Science Requirement	4
CREDITS		17

SPRING		CREDITS
COM 102	Public Speaking	3
EDU 222	Structured Observations in Teaching	3
	<i>Prerequisite: See Instructor</i>	
HIST 203	New Mexico History	3
MATH 101	Basic Algebra	4
ENG 299	Capstone Portfolio Course	1
CREDITS		14

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

FALL		CREDITS
ENG 102	English Composition	3
HIST	HIST 101 or HIST 102	3
HPE 127	Introduction to Health and Wellness	1
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
	CREDITS	13

SPRING		CREDITS
EDU 110	Introduction to Education	3
ENG 104	English Composition and Research	
	<i>Prerequisite: ENG 102</i>	3
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
	Science Requirement	4
	CREDITS	16

SECOND YEAR

FALL		CREDITS
ENG	English 200 Level Elective	3
HIST	HIST 121 or HIST 122	3
HPE	HPE Elective	1
PSY 104	Growth and Development	3
	Science Elective	4
	CREDITS	14

SPRING		CREDITS
COM 102	Public Speaking	3
EDU 222	Structured Observations in Teaching	
	<i>Prerequisite: See Instructor</i>	3
HIST 203	New Mexico History	3
HIST	History Elective	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
ENG 299	Capstone Portfolio Course	1
	CREDITS	17

TOTAL CREDITS	60
----------------------	-----------

FINE ARTS

NEW MEDIA/GRAPHIC DESIGN OPTION

In the current design world of Integrated Marketing Concepts (IMC), corporate branding identities and design for a global audience, it is imperative that beginning designers develop a visual vocabulary that effectively uses the elements and principles of good design to convey ideas to broad target markets. It is equally important that new designers learn to problem solve in fresh, memorable and creative ways so that their work can effectively convince, persuade, inform and sell.

The Graphic Design Option offers Associate of Arts degree and the course of study allows students to become adept at using the elements and principles of design to create work that effectively communicates an idea. Through the course of study, the student will also become proficient at using the industry standard computer applications needed to see their work through to completion.

The course of study will allow the student to engage creatively to solve both simple and complex visual design problem as well as to help them learn to bring conceptual ideas to fruition in solid, usable, visual forms.



FIRST YEAR

FALL		CREDITS
ART 103	Basic Design (2D)	3
ART 112	Drawing 1	3
ENG 102	English Composition	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Social/Behavioral Science Requirement	3
CREDITS		16

SPRING		CREDITS
ART 104	3-D Concepts	3
ART 222	Drawing 2	3
	<i>Prerequisite: ART 112</i>	
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
ART 123	Digital Media I	3
	<i>Prerequisite: Instructor Approval</i>	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
ART/CIS 216	Digital Photography and the Digital Darkroom3	3
	<i>Prerequisite: Instructor Approval</i>	
HPE 127	Introduction to Health and Wellness	1
CREDITS		14

SPRING		CREDITS
ART 153	Digital Media II	3
	<i>Prerequisite: ART 123</i>	
ART	Painting/Printmaking	3
	<i>Refer to Prerequisite</i>	
ART 261	Art History	3
COM 102	Public Speaking	3
HPE	HPE Elective	1
ENG 299	Capstone Portfolio Course	1
CREDITS		16

TOTAL CREDITS 60

THREE-DIMENSIONAL OPTION

The studio option with three-dimensional emphasis offers the student the opportunity to study various 3D studio media. The spacious laboratories at Mesalands Community College will provide students with access to professional-quality equipment, including a full metal fabrication shop, woodshop, 3D printers, 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. The visiting artist program also 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. Instructors are nationally-recognized, practicing artists, who are dedicated to helping you explore, research and practice the visual arts.



FIRST YEAR

FALL		CREDITS
ART 103	Basic Design (2D)	3
ART 112	Drawing I	3
ENG 102	English Composition	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Social/Behavioral Science Requirement	3
CREDITS		16

SPRING		CREDITS
ART 104	3D Concepts	3
	2D Elective – Painting/Printmaking/ Drawing II	3
	<i>Prerequisite: ART 112</i>	
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
ART 114	Sculpture I	3
	<i>Prerequisite: ART 104</i>	
ART/CIS 216	Digital Photography and the Digital Darkroom	3
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
HPE 127	Introduction to Health and Wellness	1
CREDITS		14

SPRING		CREDITS
ART	3D Elective – Sculpture II/Ceramics	3
	<i>Refer to Prerequisite</i>	
ART 225	Foundry	3
ART 261	Art History	3
COM 102	Public Speaking	3
HPE	HPE Elective	1
ENG 299	Capstone Portfolio Course	1
CREDITS		14

TOTAL CREDITS 60

TWO-DIMENSIONAL OPTION

The studio option with two-dimensional emphasis, offers the student the opportunity to study various 2D studio media. The two-dimensional option encourages experimentation within drawing and painting, while also familiarizing students with critical and technical skills necessary to sustain an artistic practice.

The spacious laboratories will provide students with access to professional-quality equipment, including a full printmaking laboratory, lithography press, takach press, woodshop, 3D laser engraver, digital photo, and painting laboratory

For non-art majors, the program offers courses that satisfy the degree requirements for other fields of study. Art courses are also open to non-degree seeking students who are interested in art. Students will work with the College's renowned art faculty, all of whom are practicing artists, to discover new materials, concepts, and projects that will help students take their work in unexpected directions.



FIRST YEAR

FALL		CREDITS
ART 103	Basic Design (2D)	3
ART 112	Drawing I	3
ENG 102	English Composition	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Social/Behavioral Science Requirement	3
CREDITS		16

SPRING		CREDITS
ART 104	3D Concepts	3
ART 222	Drawing II	3
	<i>Prerequisite: ART 112</i>	
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
	2D Elective – Printmaking/Painting	3
	<i>Refer to Prerequisite</i>	
ART/CIS 216	Digital Photography and the Digital Darkroom	3
	<i>Prerequisite: Instructor Approval</i>	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
HPE 127	Introduction to Health and Wellness	1
CREDITS		14

SPRING		CREDITS
ART	2D Elective – Printmaking/Painting	3
	<i>Prerequisite: ART 112</i>	
ART	2D Elective	3
	<i>Prerequisite: ART 202/203/260</i>	
ART 261	Art History	3
COM 102	Public Speaking	3
HPE	HPE Elective	1
ENG 299	Capstone Portfolio Course	1
CREDITS		14

TOTAL CREDITS 60

METAL CASTING

Contemporary artists need strong practical technical proficiency in order to convey conceptual ideas through visual material reality. The Fine Arts program emphasizes the important aesthetic correlation of appropriate media manipulation with manifestation of a desired affective outcome.

The program offers hands-on creative experience with a variety of media applications to visual problem solving in casting. There is an equal emphasis upon student development of appropriate technical manipulation, individual creative initiative, and conceptual awareness and intent.

Bronze sculpture has a strong tradition in the College's foundry.

OCCUPATIONAL CERTIFICATE

CREDITS

ART 105	Basic Casting Techniques	3
ART 114	Sculpture I	3
ART 205	Modeling Sculpture and Mold making	3
ART 215	Casting Wax and Bronze	3
ART 225	Foundry	3
ART 230	Studio	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
CRJU 102	Introduction to Criminal Justice	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Social/Behavioral Science Requirement	3
SPAN 101	Beginning Spanish I	3
CREDITS		13

SPRING		CREDITS
CRJU 141	Criminal Investigation	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
SOC 101	Introductory Sociology	3
CREDITS		15

SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
CRJU 202	Criminal Law	3
	Science Requirement	4
SOC 212	Contemporary Social Issues	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
CREDITS		17

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
ENG 299	Capstone Portfolio Course	1
CREDITS		15

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

FALL		CREDITS
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Science Requirement	4
	Social/Behavioral Science Requirement	3
SPAN 101	Beginning Spanish I	3
CREDITS		14

SPRING		CREDITS
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
	Social/ Behavioral Science or	3
	Humanities/Fine Arts Elective	
CREDITS		16

SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
SOC 212	Contemporary Social Issues	3
SOC 215	Marriage and the Family	3
SW 218	Introduction to Social Welfare	3
CREDITS		16

SPRING		CREDITS
PSY 104	Growth and Development	3
HPE	HPE Elective	1
PSCI 202	State and Local Government	3
	Social/Behavioral Science Requirement	3
SW 290	Internship in Social Welfare	3
	<i>Prerequisite: SW 218</i>	
ENG 299	Capstone Portfolio Course	1
CREDITS		14

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
COM 101	Interpersonal Communication	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
CREDITS		13

SPRING		CREDITS
COM 102	Public Speaking	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Social/Behavioral Science Requirement	3
	Humanities/Fine Arts Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
BUS 221	Business Communications	3
CIS 210	Graphics Applications	4
ENG 233	Professional and Technical Writing	3
	Additional COM -or- ENG Elective	3
	Science Requirement	4
CREDITS		17

SPRING		CREDITS
CIS 222	Desktop Publishing	4
ENG 235	Advanced Composition	3
HPE	HPE Elective	1
MATH 108	A Survey of Mathematics	4
	Transferable Liberal Arts Elective	3
ENG 299	Capstone Portfolio Course	1
CREDITS		16

TOTAL CREDITS 62

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

FALL		CREDITS
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
	Transferable Liberal Arts Elective	3
CREDITS		13

SPRING		CREDITS
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
	Transferable Liberal Arts Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
	Science Requirement	3
	Transferable Liberal Arts Elective	3
	Transferable Liberal Arts Elective	3
	Transferable Liberal Arts Elective (200 level)	3
CREDITS		16

SPRING		CREDITS
HPE	HPE Elective	1
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Transferable Liberal Arts Elective	3
	Transferable Liberal Arts Elective	3
	Transferable Liberal Arts Elective (200 level)	3
ENG 299	Capstone Portfolio Course	1
CREDITS		15

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:

ENG 102	English Composition	3
ENG 104	English Composition and Research	3
ENG 233	Professional and Technical Writing	3
COM 101	Interpersonal Communications	3
COM 102	Public Speaking	3
CIS 101	Introduction to Computers	4

MATHEMATICS

Choose one or more:

MATH 110	College Algebra	4
MATH 112	Trigonometry	3
MATH 141	Elements of Calculus I	3
MATH 142	Elements of Calculus II	3
MATH 162	Calculus I	3
MATH 163	Calculus II	3
STAT 213	Statistical Methods	4

LABORATORY SCIENCE

Choose one or more:

BIOL 113	Introduction to Biology	4
BIOL 222	Microbiology	4
CHEM 113	General Chemistry	4
CHEM 115	Introduction to Chemistry I	4
CHEM 116	Introduction to Chemistry II	4
GEOL 141	Introduction to Environmental Science	4
GEOL 151	Physical Geology	4
GEOL 152	Historical Geology	4
PHYS 115	Introduction to Physics	4
PHYS 120	Introduction to Astronomy	4
PHYS 201	College Physics I	4
PHYS 202	College Physics II	4

SOCIAL/BEHAVIORAL SCIENCES

Choose one or more:

ANTH 101	Introduction to Archaeology	3
ANTH 201	Introduction to Cultural Anthropology	3
CRJU 102	Introduction to Criminal Justice	3
ECON 251	Macroeconomics	3
ECON 252	Microeconomics	3
PSCI 102	American Politics	3
PSCI 202	State and Local Government	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
SOC 212	Contemporary Social Issues	3
SOC 215	Marriage and the Family	3

HUMANITIES AND FINE ARTS

Choose one or more:

ART 101	Art Appreciation	3
ART 261	Art History	3
ENG 201	Types of Literature	3
ENG 211	Introduction to Literature	3
ENG 221	British Literature Survey I	3
ENG 270	Southwest Literature	3
ENG 271	Women in Literature	3
ENG 275	The Motion Picture	3
HIST 101	Survey of American History to 1877	3
HIST 102	Survey of American History Since 1877	3
HIST 121	Survey of Western Civilization I	3
HIST 122	Survey of Western Civilization II	3
MUS 101	Music Appreciation	3
PHIL 201	Introduction Philosophy	3
PHIL 202	Ethics	3
SPAN 101	Beginning Spanish I	3
SPAN 102	Beginning Spanish II	3
SPAN 201	Intermediate Spanish I	3
SPAN 202	Intermediate Spanish II	3

TOTAL CREDITS

21-23

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
ACS 100	Student College Success	3
AHS 103	Medical Terminology	3
AHS 110	Fundamentals of Nutrition	3
BIOL 211	Human Anatomy and Physiology I	4
MATH 101	Basic Algebra	4
PSY 104	Human Growth and Development	3
CREDITS		20

SPRING		CREDITS
COM 101	Interpersonal Communications -or-	
COM 102	Public Speaking	3
PSY 101	Introductory to Psychology	3
ENG 102	English Composition	3
BIOL 212	Anatomy and Physiology II	4
BIOL 222	Microbiology	4
	Elective applicable to future Nursing Program	3
CREDITS		20

TOTAL CREDITS **40**

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
ENG 102	English Composition	3
GEOL 151	Physical Geology	4
	Humanities/Fine Arts Requirement	3
PHYS 115	Introduction to Physics	4
CREDITS		14

SPRING		CREDITS
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
GEOL 152	Historical Geology	4
	<i>Prerequisite: GEOL 151</i>	
GEOL 190	Internship in Geoscience	2
GEOL	GEOL Elective	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
CHEM 115	Introduction to Chemistry I	4
COM 102	Public Speaking	3
GEOL 230	Environmental Geology	4
	<i>Prerequisite: GEOL 151</i>	
GEOL 235	Research in Natural Sciences I	2
	Humanities/Fine Arts Requirement	3
CREDITS		16

SPRING		CREDITS
GEOL 210	History of Life	4
	<i>Prerequisite: GEOL 151 or BIOL 113</i>	
GEOL 236	Research in Natural Sciences II	2
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Social/Behavioral Science Requirement	3
ENG 299	Capstone Portfolio Course	1
CREDITS		14

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 113	Introduction to Biology	4
ENG 102	English Composition	3
GEOL 151	Physical Geology	4
	Humanities/Fine Arts Requirement	3
CREDITS		14

SPRING		CREDITS
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
GEOL 152	Historical Geology	4
	<i>Prerequisite: GEOL 151</i>	
GEOL 190	Internship in Geoscience	2
	Geology or Biology Elective	4
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
ART 112/	Drawing I or	3
ART 114	Sculpture I	
CHEM 115	Introduction to Chemistry I	4
COM 102	Public Speaking	3
GEOL 205	Theory and Praxis of Museum Science	4
GEOL 235	Research in Natural Sciences I	2
CREDITS		16

SPRING		CREDITS
GEOL 210	History of Life	4
	<i>Prerequisite: GEOL 151 or BIOL 113</i>	
GEOL 236	Research in Natural Sciences II	2
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
	Social/Behavioral Science Requirement	3
ENG 299	Capstone Portfolio Course	1
CREDITS		14

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 115	Introduction to Chemistry I	4
ENG 102	English Composition	3
MATH 110/	College Algebra or	4
STAT 213	Statistical Methods	
PHYS 115	Introduction to Physical Science	4
CREDITS		15

SPRING		CREDITS
CHEM 116	Introduction to Chemistry II	4
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 112	Trigonometry	3
	Humanities/Fine Arts Requirement	3
	Social/Behavioral Science Requirement	3
CREDITS		16

SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
MATH 162	Calculus I	4
PHYS 201	College Physics I	4
	Social/Behavioral Science Requirement	3
CREDITS		14

SPRING		CREDITS
CIS	Computer Science elective	3
	Humanities/Fine Arts Requirement	3
MATH 163	Calculus II	4
PHYS 202	College Physics II	4
ENG 299	Capstone Portfolio Course	1
CREDITS		15

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 113	Introduction to Biology	4
COM 102	Public Speaking	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Social/Behavioral Science Requirement	3
CREDITS		14

SPRING		CREDITS
CHEM 115	Introduction to Chemistry I	4
	Humanities/Fine Arts Requirement	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110/College Algebra	or	4
STAT 213	Statistical Methods	
CREDITS		14

SECOND YEAR

FALL		CREDITS
HPE	HPE Elective	1
HS 101	Introduction Health Sciences	3
MATH 112	Trigonometry	3
PHYS 115	Introduction to Physics	4
	Science Requirement	4
CREDITS		15

SPRING		CREDITS
HS 212	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
ENG 299	Capstone Portfolio Course	1
CREDITS		18

TOTAL CREDITS **60**

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 113	Introduction to Biology	4
COM 102	Public Speaking	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Social/Behavioral Science Requirement	3
CREDITS		14

SPRING		CREDITS
CHEM 115	Introduction to Chemistry I	4
	Humanities/Fine Arts Requirement	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110/College Algebra or		4
STAT 213	Statistical Methods	
CREDITS		14

SECOND YEAR

FALL		CREDITS
HS 101	Introduction to Health Sciences	3
MATH 112	Trigonometry	3
PHYS 115	Introduction to Physics	4
	Science Requirement	4
CREDITS		14

SPRING		CREDITS
HPE	HPE Elective	1
HS 211	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
ENG 299	Capstone Portfolio Course	1
CREDITS		18

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 113	Introduction to Biology	4
COM 102	Public Speaking	3
ENG 102	English Composition	3
HPE 127	Introduction to Health and Wellness	1
	Social/Behavioral Science Requirement	3
CREDITS		14

SPRING		CREDITS
ANSC 150	Anatomy and Physiology of Domestic Animals	3
CHEM 115	Introduction to Chemistry I	4
	Humanities/Fine Arts Requirement	3
ENG 104	English Composition and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110/College Algebra or		4
STAT 213	Statistical Methods	
CREDITS		17

SECOND YEAR

FALL		CREDITS
HS 101	Introduction to Health Sciences	3
MATH 112	Trigonometry	3
PHYS 115	Introduction to Physics	4
	Science Requirement	4
CREDITS		14

SPRING		CREDITS
HPE	HPE Elective	1
HS 213	Veterinary Career Exploration	3
	Humanities/Fine Arts Requirement	3
	Science Requirement	4
	Social/Behavioral Science Requirement	3
ENG 299	Capstone Portfolio Course	1
CREDITS		15

TOTAL CREDITS 60

