

# Plans of Study: Associate of Arts

## Business Administration

The Business Department at Mesalands Community College offers the Associate of Arts Degree with program options in General Business, Human Resource Management, and Public Administration. Associate of Arts Degrees are awarded to students completing 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, which will enable students to enter into the business world. This program is designed to provide the first two years of business courses for those students planning to pursue a four-year degree. Graduates of the Business Administration program through their course work have been exposed to a variety of disciplines, and have been given the opportunity to improve and enhance their interpersonal skills and their critical thinking and problem solving skills.

		<b>FIRST YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
ACS 100	Student College Success		3
ENG 102	English Composition		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
HPE 127	Intro. to Health and Wellness		1
MGT 113	Principles of Management		3
		<b>CREDITS</b>	<b>16</b>
<b>SPRING</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
BUS 101	Intro. to Business		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
Computers	Select one to four courses		4
ENG 104	Eng. Comp. and Research		3
		<i>Prerequisite: ENG 102</i>	
		<b>CREDITS</b>	<b>19</b>

		<b>SECOND YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
ACCT 111	Principles of Accounting I		3
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
	Science Requirement		4
ECON 252	Microeconomics		3
STAT 213	Statistical Methods		4
	<i>Prerequisite: MATH 107</i>		
HPE	Elective		1
		<b>CREDITS</b>	<b>18</b>
<b>SPRING</b>			<b>CREDITS</b>
MATH 110	College Alge. or Higher		3
	Science Requirement		4
ACCT 210	Principles of Accounting II		3
	<i>Prerequisite: ACCT 111</i>		
BLAW 202	Intro. to Business Law		3
ECON 251	Macroeconomics		3
		<b>CREDITS</b>	<b>16</b>
		<b>TOTAL CREDITS</b>	<b>69</b>

## 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>
ACS 100	Student College Success	3
ENG 102	English Composition	3
	Science Requirement	4
	Hum./Fine Arts Require.	3
Computers	Select one to four courses	4
HPE 127	Intro. to Health and Wellness	1
	<b>CREDITS</b>	<b>18</b>
<b>SPRING</b>		<b>CREDITS</b>
COM 102	Public Speaking	3
	Science Requirement	4
	Soc./Behv. Sci. Require.	3
	Foreign Language Elective	3
ENG 104	English Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
	<b>CREDITS</b>	<b>16</b>
SECOND YEAR		
<b>FALL</b>		<b>CREDITS</b>
SPAN 201	Intermed. Spanish I	3
	<i>Prerequisite: SPAN 102</i>	
	Fine Arts Elective	3
ENG	English 200 Level Elective	3
	Foreign Language Elective	3
	Soc./Behv. Sci. Require.	3
HPE	Elective	1
	<b>CREDITS</b>	<b>16</b>
<b>SPRING</b>		<b>CREDITS</b>
MATH 110	College Algebra or Higher	3
HIST 203	New Mexico History	3
	Science Elective	4
EDU 222	Structured Observ. in Teach.	3
SPAN 202	Intermed. Spanish II	3
	<i>Prerequisite: SPAN 201</i>	
	<b>CREDITS</b>	<b>16</b>
	<b>TOTAL CREDITS</b>	<b>66</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

FALL		CREDITS
ACS 100	Student College Success	3
ENG 102	English Composition Soc./Behv. Sci. Require.	3
ECE 103	Professionalism	2
Computers	Select one to four courses	4
HPE 127	Intro. to Health and Wellness	1
<b>CREDITS</b>		<b>16</b>

SPRING		CREDITS
	Science Requirement	4
	Soc./Behv. Sci. Require.	3
ECE 110	Health, Safety, and Nutrition Hum./Fine Arts Require.	3
ENG 104	English Comp. and Research <i>Prerequisite: ENG 102</i>	3
<b>CREDITS</b>		<b>16</b>

## SECOND YEAR

FALL		CREDITS
ECE 104	Child Growth and Develop. and Learning Fine Arts Elective	3
COM 102	Public Speaking	3
ECE 106	Fam. and Comm. Collaboration Science Requirement	3
HPE	Elective	4
<b>CREDITS</b>		<b>17</b>

SPRING		CREDITS
ECE 107	Assess. of Children and Eval. Progr. Hum./Fine Arts Requirement	3
MATH 110	College Algebra or Higher	3
ECE	Intro. to Reading and Literacy	3
ECE	Guiding Young Children	3
<b>CREDITS</b>		<b>15</b>

**TOTAL CREDITS 66**

## ELEMENTARY OPTION

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

		<b>FIRST YEAR</b>	<b>CREDITS</b>
<b>FALL</b>			
ACS 100	Student College Success		3
ENG 102	English Composition		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
Computers	Select one to four courses		4
HPE 127	Intro. to Health and Wellness		1
	<b>CREDITS</b>		<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
	Science Requirement		4
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
	Fine Arts Elective		3
ENG 104	Eng. Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
	<b>CREDITS</b>		<b>16</b>
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		<b>SECOND YEAR</b>	<b>CREDITS</b>
<b>FALL</b>			
ECE 104	Growth and Development		3
ENG	English 200 Level Elective		3
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
	Fine Arts Elective		3
	Science Requirement		4
HPE	Elective		1
	<b>CREDITS</b>		<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
HIST 203	New Mexico History		3
MATH 110	College Alge. or Higher		3
	Science Requirement		4
EDU 222	Struct. Obs. of Teaching		3
	<b>CREDITS</b>		<b>16</b>
	<b>TOTAL CREDITS</b>		<b>66</b>

## SECONDARY OPTION

The Secondary Education option provides students with opportunities and experiences working with children from a broad range of cultural, ethnic, and economic backgrounds. Students will be prepared for career roles such as teachers of science, social sciences, humanities, educational leaders, researchers, media, and computer specialists.

		FIRST YEAR	CREDITS
<b>FALL</b>			
ACS 100	Student College Success		3
ENG 102	English Composition		3
	Soc./Behv. Sci. Require.		3
	Human./Fine Arts Require.		3
Computers	Select one to four courses		4
HPE 127	Intro. to Health and Wellness		1
		<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
	Education Requirement		3
	Science Requirement		4
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
ENG 104	Eng. Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
		<b>CREDITS</b>	<b>16</b>
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		SECOND YEAR	CREDITS
<b>FALL</b>			<b>CREDITS</b>
	Education Requirement		3
	Fine Arts Elective		3
ENG	English 200 Level Elective		3
	Soc./Behv. Science -or- Hum./Fine Arts Elective		3
	Science Requirement		4
HPE	Elective		1
		<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
HIST 203	New Mexico History		3
MATH 110	College Alge. or Higher		3
	Science Requirement		4
EDU 222	Struct. Obs. of Teaching		3
		<b>CREDITS</b>	<b>16</b>
		<b>TOTAL CREDITS</b>	<b>66</b>

## Fine Arts

Contemporary artists need strong practical technical proficiency so they can 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 including: bronze casting, fabrication with a variety of materials, carving, drawing and painting. 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 Mesalands' foundry; however, other media options are strongly pursued. Exploration in combining several media is encouraged.

## SCULPTURE OPTION

### FIRST YEAR

<b>FALL</b>		<b>CREDITS</b>
ACS 100	Student College Success	3
ENG 102	English Composition	3
	Science Requirement	4
ART 104	3-D Concepts	3
ART 103	Basic Design	3
HPE 127	Intro. to Health and Wellness	1
<b>CREDITS</b>		<b>17</b>

<b>SPRING</b>		<b>CREDITS</b>
ART 101	Art Appreciation	3
ENG 104	Eng. Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts require.	3
	3 Dimensional Elective	3
<b>CREDITS</b>		<b>15</b>

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### SECOND YEAR

<b>FALL</b>		<b>CREDITS</b>
Computers	Select one to four courses	4
COM 102	Public Speaking	3
ART 112	Drawing I	3
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
	3 Dimensional Elective	3
<b>CREDITS</b>		<b>19</b>

<b>SPRING</b>		<b>CREDITS</b>
MATH 110	College Algebra or Higher	3
ART 114	Sculpture I	3
	<i>Prerequisite: ART104</i>	
	Soc./Behv. Sci. -or-	
	Hum./Fine Arts Elective	3
	Science Requirement	4
	3 Dimensional Elective	3
HPE	Elective	1
<b>CREDITS</b>		<b>17</b>

**TOTAL CREDITS 68**

## TWO DIMENSIONAL OPTION

### FIRST YEAR

FALL		CREDITS
ACS 100	Student College Success	3
ENG 102	English Composition	3
	Science Requirement	4
ART 104	3-D Concepts	3
ART 103	Basic Design	3
HPE 127	Intro. to Health and Wellness	1
<b>CREDITS</b>		<b>17</b>

SPRING		CREDITS
ART 101	Art Appreciation	3
ENG 104	English Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
	2 Dimensional Elective	3
<b>CREDITS</b>		<b>15</b>

### SECOND YEAR

FALL		CREDITS
Computers	Select one to four courses	4
ART 112	Drawing I	3
ART 113	Painting I	3
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Elective	3
	2 Dimensional Elective	3
<b>CREDITS</b>		<b>19</b>

SPRING		CREDITS
MATH 110	College Algebra or Higher	3
COM 102	Public Speaking	3
	Soc./Behv. Sci. Require. -or-	
	Hum./Fine Arts Elective	3
	Science Requirement	4
	2 Dimensional Elective	3
HPE	Elective	1
<b>CREDITS</b>		<b>17</b>

**TOTAL CREDITS 68**



# 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

<b>FALL</b>		<b>CREDITS</b>
ACS 100	Student College Success	3
CRJU 102	Intro. to Criminal Justice	3
ENG 102	English Composition	3
Computers	Select one to four courses	4
HPE 127	Intro. to Health and Wellness	1
	Soc./Behv. Sci. Require.	3
	<b>CREDITS</b>	<b>17</b>

<b>SPRING</b>		<b>CREDITS</b>
CRJU 141	Criminal Investigation	3
	Soc./Behv. Sci. Elective	3
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
ENG 104	English Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
	<b>CREDITS</b>	<b>15</b>

### SECOND YEAR

<b>FALL</b>		<b>CREDITS</b>
COM 102	Public Speaking	3
	Soc./Behv. Sci. -or-	
	Hum./Fine Arts Elective	3
	Soc./Behv. Sci. Elective	3
	Science Require.	4
STAT 213	Statistical Methods	4
	<i>Prerequisite: MATH 107</i>	
SW 218	Intro. to Social Welfare	3
	<b>CREDITS</b>	<b>20</b>

<b>SPRING</b>		<b>CREDITS</b>
MATH 110	College Alge. or Higher	3
PSCI 202	State and Local Govt.	3
	Science Requirement	4
	Hum./Fine Arts Require.	3
	Soc./Behv. Sci. Elective	3
HPE	Elective	1
	<b>CREDITS</b>	<b>17</b>

**TOTAL CREDITS** **69**

## 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.

		<b>FIRST YEAR</b>	
		<b>FALL</b>	<b>CREDITS</b>
ACS 100	Student College Success		3
ENG 102	English Composition		3
Computers	Select one to four courses		4
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
HPE 127	Intro. to Health and Wellness		1
		<b>CREDITS</b>	<b>17</b>
		<b>SPRING</b>	<b>CREDITS</b>
ENG 104	English Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
	Science Requirement		4
	Soc./Behv. Sci. Require.		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
MATH 110	College Alge. or Higher		3
		<b>CREDITS</b>	<b>19</b>
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		<b>SECOND YEAR</b>	
		<b>FALL</b>	<b>CREDITS</b>
COM 102	Public Speaking		3
SW 218	Intro. to Social Welfare		3
STAT 213	Statistical Methods		4
SOC 215	Marriage and the Family		3
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
		<b>CREDITS</b>	<b>16</b>
		<b>SPRING</b>	<b>CREDITS</b>
PSCI 202	State and Local Govt.		3
	Science Requirement		4
ECE 104	Growth and Development		3
	Soc./Behv. Sci. Require.		3
SW 290	Internship in Social Welfare		3
	<i>Prerequisite: SW 218</i>		
HPE	Elective		1
		<b>CREDITS</b>	<b>17</b>
		<b>TOTAL CREDITS</b>	<b>69</b>

# 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 will have completed coursework that explores a variety of academic disciplines. Students intending 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 to which they plan to transfer.

<b>FIRST YEAR</b>		<b>CREDITS</b>
<b>FALL</b>		
ACS 100	Student College Success	3
ENG 102	English Composition	3
Computers	Select one to four courses	4
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
HPE 127	Intro. to Health and Wellness	1
	<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>		
ENG 104	Eng. Comp. and Research <i>Prerequisite: ENG 102</i>	3
COM 102	Public Speaking	3
	Transfer. Liberal Arts Elect.	3
	Transfer. Liberal Arts Elect.	3
BUS 221	Business Communications	3
	<b>CREDITS</b>	<b>15</b>

<b>SECOND YEAR</b>		<b>CREDITS</b>
<b>FALL</b>		
	Science Require.	4
	Select Comm. Course -or-	
	200 Level Eng. Writ. Course	3
	Soc./Behv. Sci. Require.	3
	Transfer. Lib. Arts Elective	3
	Transfer. Lib. Arts Elective	3
	Hum./Fine Arts Require.	3
	<b>CREDITS</b>	<b>19</b>
<b>SPRING</b>		
MATH 110	College Algebra or Higher	3
	Science Require.	4
	Soc./Behv. Sci. -or-	
	Hum./Fine Arts Elective	3
CIS 210	Graphics Applications -or-	
CIS 222	Desktop Publishing	4
	Transfer. Lib. Arts Elective	3
HPE	Elective	1
	<b>CREDITS</b>	<b>18</b>
	<b>TOTAL CREDITS</b>	<b>69</b>

## GENERAL STUDIES OPTION

Recognizing that adult learners may have experiences outside the college classroom that have led to the acquisition of knowledge and skills equivalent to that which would have been 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 Arts Degree in General Studies. Credit is awarded only if appropriate experiential learning has occurred and is documented as specified in the Experiential Learning Portfolio Handbook.



## FIRST YEAR

FALL		CREDITS
ACS 100	Student College Success	3
ENG 102	English Composition	3
	Credit for Experiential Learning*	3
	Social/Behv. Science Requirement	3
	Hum./Fine Arts Requirement	3
HPE 127	Intro. to Health and Wellness	1
	<b>CREDITS</b>	<b>16</b>

SPRING		CREDITS
ENG 104	English Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
	Science Requirement	4
	Credit for Experiential Learning*	3
	Transferable Liberal Arts Elective	3
	Social/Behv. Science Requirement	3
	Hum./Fine Arts Requirement	3
	<b>CREDITS</b>	<b>19</b>

## SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
Computers	Select one to four courses	4
	Credit for Experiential Learning*	3
	Science Requirement	4
	Social/Behv. Science or	
	Hum./Fine Arts Elective	3
	<b>CREDITS</b>	<b>17</b>

SPRING		CREDITS
MATH 110	College Algebra or Higher	3
	Credit for Experiential Learning*	3
	Credit for Experiential Learning*	3
	Credit for Experiential Learning*	3
	Transferable Liberal Arts Elective	3
HPE	Elective	1
	<b>CREDITS</b>	<b>16</b>

**TOTAL CREDITS 68**

## 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 selected areas of interest. Graduates of the program will have completed coursework that explores a variety of academic disciplines. 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.

		<b>FIRST YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
ACS 100	Student College Success		3
ENG 102	English Composition		3
	Transfer. Lib. Arts Elective		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
HPE 127	Intro. to Health and Wellness		1
		<b>CREDITS</b>	<b>16</b>
<b>SPRING</b>			<b>CREDITS</b>
ENG 104	Eng. Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
	Science Requirement		4
	Transfer. Lib. Arts Elective		3
	Transfer. Lib. Arts Elective		3
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
		<b>CREDITS</b>	<b>19</b>
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		<b>SECOND YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
Computers	Select one to four courses		4
	Transfer. Lib. Arts Electives		3
	Science Requirement		4
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
		<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
MATH 110	College Alge. or Higher		3
	Transfer. Lib. Arts Elective		3
	Transfer. Lib. Arts Elective		3
	Transfer. Lib. Arts Elective		3
	Transfer. Lib. Arts Elective		3
HPE	Elective		1
		<b>CREDITS</b>	<b>16</b>
		<b>TOTAL CREDITS</b>	<b>68</b>

## LIBERAL ARTS CERTIFICATE

The Liberal Arts Certificate program is designed to provide students the opportunity to explore areas of interest in the liberal arts. Graduates of the program will have completed coursework that explores a variety of academic disciplines. Students must choose one or more courses from each area of study for a total of 18 credit hours. Students intending 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 to which they plan to transfer.

### COMMUNICATIONS

Choose one or more:

ENG 102	English Composition	3
ENG 104	English Comp. and Research	3
ENG 233	Professional and Tech. Writing	3
COM 101	Interpersonal Communications	3
COM 102	Public Speaking	3

### MATHEMATICS

Choose one or more:

MATH 110	College Algebra	3
MATH 112	Trigonometry	3
MATH 141	Survey of Calculus	3
STAT 213	Statistical Methods	4

### LABORATORY SCIENCE

Choose one or more:

BIOL 113	Introduction to Biology	4
CHEM 113	General Chemistry	4
CHEM 115	Introduction to Chemistry I	4
CHEM 116	Introduction to Chemistry II	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	Intro. 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

**TOTAL CREDITS** **16-17**

## 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 and the potash mines of Carlsbad, and 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
ACS 100	Student College Success	3
ENG 102	English Composition	3
GEOL 151	Physical Geology	4
PHYS 115	Introduction to Physics	4
	Social/Behv. Science -or- Hum./Fine Arts Requirement	3
	<b>CREDITS</b>	<b>17</b>

SPRING		CREDITS
ENG 104	English Comp. and Research <i>Prerequisite: ENG 102</i>	3
Computers	Select one to four courses	4
GEOL 152	Historical Geology <i>Prerequisite: GEOL 151</i>	4
GEOL 210	History of Life <i>Prerequisite: BIOL 113 or GEOL 151</i>	4
	Social/Behv. Science -or- Hum./Fine Arts Requirement	3
	<b>CREDITS</b>	<b>18</b>

### SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
HPE 127	Intro. to Health and Wellness	1
	Science Req. (BIOL or CHEM)	4
GEOL	Elective	4
	Social/Behv. Science -or- Hum./Fine Arts Elective	3
	<b>CREDITS</b>	<b>16</b>

SPRING		CREDITS
	Elective: GEOL or CIS	4
	Science Req. (BIOL or CHEM)	4
GEOL 230	Environmental Geology <i>Prerequisite: GEOL 151</i>	4
MATH 110	College Algebra or Higher	3
HPE	Elective	1
	<b>CREDITS</b>	<b>16</b>

**TOTAL CREDITS 66**

## 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 early shelled animals through giant dinosaurs to mighty mammoths.

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. 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 and study.



FIRST YEAR		CREDITS
<b>FALL</b>		
ACS 100	Student College Success	3
ENG 102	English Composition	3
BIOL 113	Intro. to Biology	4
GEOL 151	Physical Geology	4
	Social/Behv. Science -or- Hum./Fine Arts Requirement	3
	<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>		<b>CREDITS</b>
ENG 104	English Comp. and Research <i>Prerequisite: ENG 102</i>	3
Computers	Select one to four courses	4
GEOL 105	Intro. to Museum Science	4
GEOL 152	Historical Geology <i>Prerequisite: GEOL 151</i>	4
	Social/Behv. Science -or- Hum./Fine Arts Requirement	3
	<b>CREDITS</b>	<b>18</b>

SECOND YEAR		CREDITS
<b>FALL</b>		
COM 102	Public Speaking	3
GEOL	Elective	4
	Science Req. (BIOL or CHEM)	4
	Social/Behv. Science -or- Hum./Fine Arts Elective	3
HPE 127	Intro. to Health and Wellness	1
	<b>CREDITS</b>	<b>15</b>
<b>SPRING</b>		<b>CREDITS</b>
	Science Req. (BIOL or CHEM)	4
GEOL 210	History of Life <i>Prerequisite: BIOL 113 or GEOL 151</i>	4
MATH 110	College Algebra or Higher	3
	Elective: GEOL or CIS	4
HPE	Elective	1
	<b>CREDITS</b>	<b>16</b>
	<b>TOTAL CREDITS</b>	<b>66</b>

# Physical Science

## PRE-ENGINEERING OPTION

The Physical Science (pre-engineering) concentration provides students an opportunity to explore concepts in mathematics and science, and develop written and verbal communication skills. Graduates of the program will be computer proficient and have well-developed critical thinking and problem-solving skills. This program is intended to prepare students for a baccalaureate program in engineering or the physical sciences. Students may want to consult with their adviser for specialized summer opportunities that would enhance their educational experience.

		<b>FIRST YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
ACS 100	Student College Success		3
ENG 102	English Composition		3
Computers	Select one to four courses		4
GEOL 151	Physical Geology -or-		
MET 115	Intro. to Metallurgy		4
HPE 127	Intro. to Health and Wellness		1
		<b>CREDITS</b>	<b>15</b>
<b>SPRING</b>			<b>CREDITS</b>
MATH 110	College Algebra		3
CHEM 115	Intro. to Chemistry I		4
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
ENG 104	Eng. Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
		<b>CREDITS</b>	<b>16</b>
<hr/>			
		<b>SECOND YEAR</b>	
<b>FALL</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
PHYS 201	College Physics I		4
MATH 112	Trigonometry		3
CHEM 116	Intro. to Chemistry II		4
	<i>Prerequisite: CHEM 115</i>		
		<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
Computers	Elective: Select one course		4
HPE	Elective		1
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
MATH 141	Calculus I		3
PHYS 202	College Physics II		4
	<i>Prerequisite: PHYS 201</i>		
		<b>CREDITS</b>	<b>18</b>
		<b>TOTAL CREDITS</b>	<b>66</b>

## 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		
<b>FALL</b>		<b>CREDITS</b>
ACS 100	Student College Success	3
ENG 102	English Composition	3
BIOL 113	Intro. to Biology	4
Computers	Select one to four courses	4
HPE 127	Intro. to Health and Wellness	1
	<b>CREDITS</b>	<b>15</b>
<b>SPRING</b>		<b>CREDITS</b>
CHEM 115	Intro. to Chemistry I	4
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
ENG 104	Eng. Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110	College Algebra	3
	<b>CREDITS</b>	<b>16</b>
SECOND YEAR		
<b>FALL</b>		<b>CREDITS</b>
COM 102	Public Speaking	3
HS 101	Intro. to Health Sciences	3
	Science Requirement	4
MATH 112	Trigonometry	3
PHYS 115	Intro. to Physics	4
	<b>CREDITS</b>	<b>17</b>
<b>SPRING</b>		<b>CREDITS</b>
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
	Soc./Behv. Sci.-or-	
	Hum./Fine Arts Elective	3
	Science Requirement	4
HS 212	Dental Career Exploration	3
HPE	Elective	1
	<b>CREDITS</b>	<b>17</b>
	<b>TOTAL CREDITS</b>	<b>65</b>

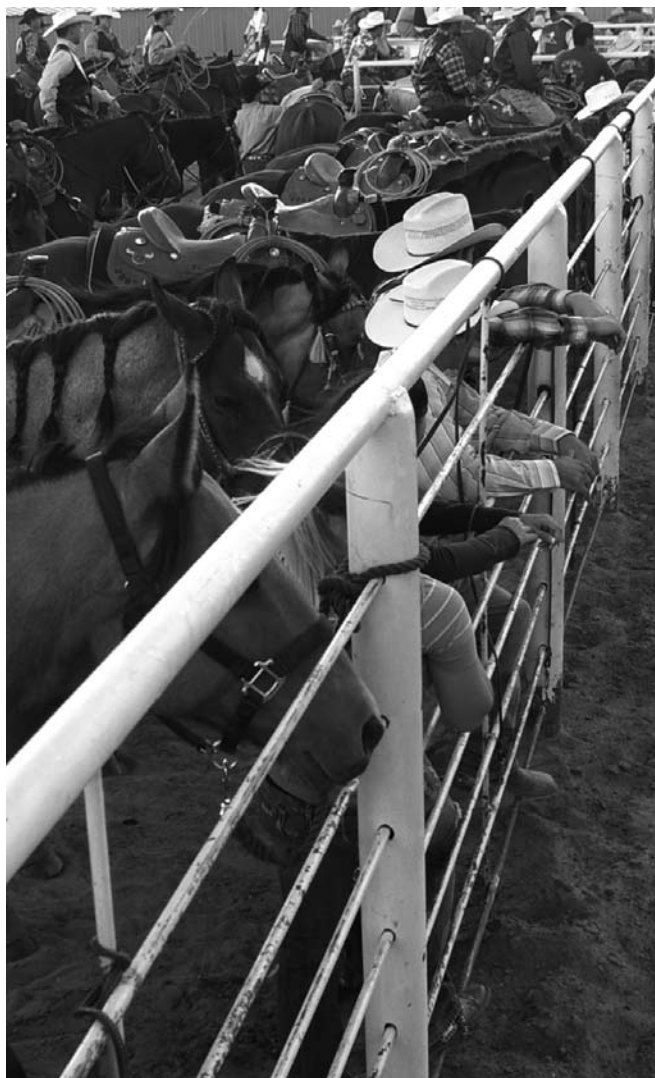
## PRE-MEDICINE OPTION

This program consists of the first two years of course work that will enable a student 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	CREDITS
<b>FALL</b>			
ACS 100	Student College Success		3
ENG 102	English Composition		3
BIOL 113	Intro. to Biology		4
Computers	Select one to four courses		4
HPE 127	Intro. to Health and Wellness		1
	<b>CREDITS</b>		<b>15</b>
<b>SPRING</b>			<b>CREDITS</b>
CHEM 115	Intro. to Chemistry I		4
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
ENG 104	English Comp. and Research		3
	<i>Prerequisite: ENG 102</i>		
MATH 110	College Algebra		3
	<b>CREDITS</b>		<b>16</b>
<hr/>			
		SECOND YEAR	CREDITS
<b>FALL</b>			<b>CREDITS</b>
COM 102	Public Speaking		3
HS 101	Intro. to Health Sciences		3
	Science Requirement		4
MATH 112	Trigonometry		3
PHYS 115	Introduction to Physics		4
	<b>CREDITS</b>		<b>17</b>
<b>SPRING</b>			<b>CREDITS</b>
	Soc./Behv. Sci. Require.		3
	Hum./Fine Arts Require.		3
	Soc./Behv. Sci. -or-		
	Hum./Fine Arts Elective		3
	Science Requirement		4
HS 211	Medical Career Exploration		3
HPE	Elective		1
	<b>CREDITS</b>		<b>17</b>
	<b>TOTAL CREDITS</b>		<b>65</b>

## 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
ACS 100	Student College Success	3
ENG 102	English Composition	3
BIOL 113	Introduction to Biology	4
Computers	Select one to four courses	4
HPE 127	Intro. to Health and Wellness	1
<b>CREDITS</b>		<b>15</b>

SPRING		CREDITS
ANSC 150	Anat./Phys./Domestic Animals	3
CHEM 115	Intro. to Chemistry I	4
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
ENG 104	English Comp. and Research	3
	<i>Prerequisite: ENG 102</i>	
MATH 110	College Algebra	3
<b>CREDITS</b>		<b>19</b>

## SECOND YEAR

FALL		CREDITS
COM 102	Public Speaking	3
HS 101	Intro. to Health Sciences	3
	Science Requirement	4
MATH 112	Trigonometry	3
PHYS 115	Introduction to Physics	4
<b>CREDITS</b>		<b>17</b>

SPRING		CREDITS
	Soc./Behv. Sci. Require.	3
	Hum./Fine Arts Require.	3
	Soc./Behv. Sci. -or-	
	Hum./Fine Arts Elective	3
	Science Requirement	4
HS 213	Veterinary Career Explor.	3
HPE	Elective	1
<b>CREDITS</b>		<b>17</b>

**TOTAL CREDITS 68**

# 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. Business 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 courses, as well as the general education core. 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

FALL		CREDITS
ACS 100	Student College Success	3
Computers	Select one to four courses	4
ENG 102	English Composition	3
ACCT 111	Principles of Accounting I	3
ANSC 100	Introduction to Animal Sci.	3
<b>CREDITS</b>		<b>16</b>

SPRING		CREDITS
	Science Requirement	4
BUS 101	Introduction to Business	3
ABM 162	Entrepreneurial Business	3
CIS 201	Word Processing Applic. -or-	
CIS 108	Spreadsheet Applications	4
ACCT 210	Principles of Accounting II	3
<b>CREDITS</b>		<b>17</b>

### SECOND YEAR

FALL		CREDITS
MATH 101	Basic Algebra or higher	3
COM 102	Public Speaking	3
RGSC 100	Introduction to Plant Science	3
ABM 264	Agriculture Economics -or-	
ECON 252	Microeconomics	3
MGT 113	Principles of Management	3
BLAW 202	Introduction to Business Law	3
<b>CREDITS</b>		<b>18</b>

SPRING		CREDITS
	Soc. Sci./Hum. Require.	3
ABM 265	Agriculture Marketing -or-	
MKT 115	Principles of Marketing	3
	Animal Science Elective	3
BUS 221	Business Communications	3
ECON 251	Macroeconomics	3
<b>CREDITS</b>		<b>15</b>

**TOTAL CREDITS 66**