

# Associate in Science Liberal Arts and Science: Mathematics Option

# MTH.AS

FIRST YEAR/FIRST SEMESTER			
Course #	Course Name	Credits	Notes
ENG-101	English Composition I	3	Must test into ENG-101 or complete all appropriate prerequisites
BIO-111 or CHM-111	Biology I: Science Chemistry I: Science	4	<b>CHM-111 Prerequisite:</b> CHM-010, MTH-124 or MTH-125
HIS-101	World Civilization I	3	
MTH-140	Calculus I	4	Must test into MTH-140 or complete all appropriate prerequisites
HPE-	Health and Exercise Science Elective	1	
FIRST YEAR/SECOND SEMESTER			
ENG-102	English Composition II	3	<b>Prerequisite:</b> ENG-101
BIO-112 or CHM-112	Biology II: Science Chemistry II: Science	4	<b>CHM-112 Prerequisite:</b> CHM-111
MTH-129	Discrete Mathematics	4	<b>Prerequisite:</b> MTH-140
MTH-150	Calculus II	4	<b>Prerequisite:</b> MTH-140
SECOND YEAR/FIRST SEMESTER			
MTH-145	Linear Algebra	4	<b>Prerequisite:</b> MTH-140
MTH-210	Calculus III	4	<b>Prerequisite:</b> MTH-150
PHY-201	Physics III	4	<b>Prerequisite:</b> MTH-140
ELECTIVE	Social Science General Education Elective	3	
SECOND YEAR/SECOND SEMESTER			
CSC-121	Structured Programming (C++)	4	
MTH-220	Differential Equations	4	<b>Prerequisite:</b> MTH-150 <b>Corequisite:</b> MTH-210
PHY-202	Physics IV	4	<b>Prerequisite:</b> PHY 201
ELECTIVE	Humanities General Education Elective	3	
<b>TOTAL CREDITS</b>		<b>60</b>	

**PROGRAM DESCRIPTION**

This program constitutes the first two years of a traditional four-year curriculum. It is designed for students with a strong interest in mathematics and its applications, who plan to transfer to a four-year college or university as a mathematics major or a related field. Students gain experience in the use of graphing calculators and computer software. Graduates are highly competitive as mathematics majors at four-year institutions.

**PROGRAM STUDENT LEARNING OUTCOMES**

- At the end of the program, the graduate will be able to:
1. Utilize computational and analytical skills in conjunction with mathematical concepts to solve abstract mathematics problems and applied problems in the fields of science, business, engineering, and technology.
  2. Use technological tools, such as graphing calculator or computers, to analyze and solve mathematical and applied problems.
  3. Follow a logical, symbolic argument and apply the concept of proof, as it relates to mathematical results.

**CONTACT PERSON**

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