

# ***AA General Studies – Math Option***

## **PHILOSOPHY:**

The mathematics program is designed to provide a broad foundation for students interested in mathematics and related fields including engineering, computer science, human services, business, and mathematics education. Critical thinking and cooperative learning are stressed.

## **EXPECTED LEARNER OUTCOMES:**

Students will:

1. Apply a mathematical model to real life situation.
2. Develop a mathematical model through data analysis.
3. Apply basic math skills in complex situations.
4. Examine the influences of different cultures in mathematics.
5. Demonstrate skill in determining which mathematical tools to use in solving problems of various types.
6. Demonstrate skill in solving problems with require algebra, geometry, calculus, statistics, or number theory methods for solutions.

## **COURSE REQUIREMENTS:**

Students will complete the GENERAL EDUCATION and the PROFESSIONAL CORE degree requirements as outlined in the appropriate sections with these specific courses required for completion of General Education.

<b>GENERAL EDUCATION</b>	<b>35 CREDITS</b>
General Education Mathematics: M 145: Math for Liberal Arts (4 credits)	
<b>PROFESSIONAL CORE</b>	<b>28 CREDITS</b>
CSCI 110: Visual Basic (3 credits)	
M 121: College Algebra (3 credits)	
M 151: Pre-calculus (3 credits)	
M171: Calculus I (5 credits)	
STAT 216: Intro to Statistics (3 credits)	
M 172: Calculus II (5 credits)	
Electives (3 credits)	
M 290: Mathematics Capstone (3 credits)	
<b>TOTAL CREDIT REQUIREMENTS</b>	<b>63 Credits</b>