

# Liberal Arts and Science: Secondary Education in Mathematics Option SEM.AS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
<b>First Year/First Semester</b>			<b>Second Year/First Semester</b>		
ENG-101	English Composition I	3	MTH-145	Linear Algebra	4
BIO-111	Biology I – Science or		MTH-210	Calculus III	4
CHM-111	Chemistry I Science	4	PHY-201	Physics III	4
HIS-101	World Civilizations I	3	PSY-103	Educational Psychology	3
MTH-140	Calculus I	4			<b>15</b>
		<b>14</b>	<b>Second Semester</b>		
<b>Second Semester</b>			EDU-101	Historical Trends in American Education	3
ENG-102	English Composition II	3	MTH-220	Differential Equations	4
BIO-112	Biology II – Science or		PHY-202	Physics IV	4
CHM-112	Chemistry II Science	4	.....	Social Science General Education Elective or	
MTH-129	Discrete Mathematics	4	.....	Humanities General Education Elective <sup>1</sup>	3
MTH-150	Calculus II	4			<b>14</b>
PSY-101	Basic Psychology	3	<b>Total Minimum Credits</b>		
		<b>18</b>			<b>61</b>

<sup>1</sup> Select electives based on requirements of Transfer Institution

**PROGRAM DESCRIPTION**

This transfer program is designed for students wishing to pursue a career in mathematics secondary education. Currently, students wishing to teach high school mathematics are required to complete a baccalaureate degree in their subject area and a degree or certificate in secondary education. This curriculum provides students with the necessary math, science, and general education requirements to transfer into both programs offered by their desired transfer institution.

**PROGRAM GOALS**

- To provide students with a foundation in general education.
- To ensure transferability of coursework to a baccalaureate program in mathematics and secondary education.

**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 calculators 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.
  4. Explain current educational issues in view of their historical context.

**GRADUATION REQUIREMENTS**

Secondary Education in Mathematics majors must earn a grade of C or better in all mathematics courses to be eligible for graduation.

**TRANSFER OPPORTUNITIES**

Students in this program transfer to many institutions including:  
 Rowan University  
 Rutgers University  
 Fairleigh Dickinson University  
 Stockton University  
 Drexel University  
 Temple University

**POST-BACCALAUREATE  
EMPLOYMENT OPPORTUNITIES**

- Public high schools
- Private high school

**CONTACT PERSON**

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