

Associate in Arts

MATHEMATICS

Program Information

The Mathematics program prepares students for further study in mathematics and/or its applications. The program provides students with a solid foundation in basic mathematical principles. Students in this program develop a strong mathematical foundation that will enable them to pursue advanced studies in mathematics or related disciplines such as physics or engineering.

Upon successfully completing this program, students should be able to:

- demonstrate an understanding of scientific inquiry and application,
- demonstrate skill in performing advanced mathematics,
- demonstrate the ability to apply advanced mathematics, and
- demonstrate the ability to do statistical analysis.

Transfer of Credits

Mathematics graduates may transfer credits to a bachelor's degree program at a four-year college or university. Please direct specific questions to a Student Affairs advisor.

CREDITS

FIRST SEMESTER

<input type="checkbox"/>	ENG 101	English Composition I	3
<input type="checkbox"/>	HIS 101	Western Civilization I	3
<input type="checkbox"/>	MAT 231	Calculus I	4
<input type="checkbox"/>	PHY 221	Calculus-Based Physics I	4
<input type="checkbox"/>		Social Science Elective	<u>3</u>
			17

SECOND SEMESTER

<input type="checkbox"/>	ENG 102	English Composition II	3
<input type="checkbox"/>	HIS 102	Western Civilization II	3
<input type="checkbox"/>	MAT 232	Calculus II	4
<input type="checkbox"/>	PHY 222	Calculus-Based Physics II	4
<input type="checkbox"/>		Humanities Elective	<u>3</u>
			17

THIRD SEMESTER

<input type="checkbox"/>	ENG 202	Introduction to Speech Communication	3
<input type="checkbox"/>	MAT 134	Contemporary Mathematics	3
<input type="checkbox"/>	MAT 233	Calculus III	4
<input type="checkbox"/>	SOC 101	Introduction to Sociology	3
<input type="checkbox"/>		Humanities Elective	<u>3</u>
			16

FOURTH SEMESTER

<input type="checkbox"/>	MAT 201	Statistics	3
<input type="checkbox"/>	MAT 240	Linear Algebra	4
<input type="checkbox"/>		Computer Science Elective	3
<input type="checkbox"/>		Humanities Elective	3
<input type="checkbox"/>		Social Science Elective	<u>3</u>
			16

TOTAL CREDITS: **66**

N.J. GENERAL EDUCATION COMPONENT FOR MATHEMATICS

Communication:	ENG 101, ENG 102, ENG 202
Math/Science/Technological Competency:	MAT 134, MAT 201, PHY 221, PHY 222
Social Science:	2 Social Science Electives
Humanities:	3 Humanities Electives
History:	HIS 101, HIS 102
Cultural/Global Awareness:	SOC 101