

Rowan College of South Jersey
ARTS AND SCIENCES – MATHEMATICS
Associate in Science (A.S.) – Transfer
Program Requirements

This program is designed for students who have chosen mathematics as a major field of concentration and it will prepare students to transfer into a Bachelor of Science or Bachelor of Arts degree program.

Students who have completed the program will be able to:

- Demonstrate theoretical knowledge in advanced mathematics.
- Perform abstract mathematical reasoning.
- Read, interpret and analyze quantitative information.
- Apply mathematical concepts and solve problems.

Required Core and Elective Courses

		<u>Credits</u>
<u>Communications</u>		
ENG 101	English Composition I	3
ENG 102	English Composition II	3
<u>Humanities</u>		
SPE 101	Oral Communication	3
_____	Humanities Elective	3
<u>Social Science</u>		
_____	Social Science Elective	3
_____	Social Science Elective	3
<u>Mathematics</u>		
MAT 108	Calculus I	4
MAT 201	Discrete Mathematics	3
MAT 122	Calculus II	4
MAT 205	Differential Equations	4
MAT 221	Calculus III	4
MAT 202	Linear Algebra	3
MAT _____	Mathematics Elective	3-4
<u>Computer Science</u>		
CSC 101	Introduction to Programming	4
<u>Science</u>		
_____	Science Elective	4
_____	Science Elective	4
<u>Elective</u>		
_____	General Education Elective	3-4
_____	Free Elective	1-4
_____	Free Elective	1-4
<u>TOTAL MINIMUM CREDITS:</u>		60

ARTS AND SCIENCES – MATHEMATICS
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Semester Sequence of Courses

<u>FIRST YEAR - Fall Semester</u>			<u>Credits</u>
_____	ENG 101	English Composition I	3
_____	MAT 108	Calculus I*	4
_____	CSC 101	Introduction to Programming	4
_____	_____	Social Science Elective**	3
_____	_____	Free Elective	1-4
			15-18
<u>Spring Semester</u>			
_____	ENG 102	English Composition II	3
_____	MAT 122	Calculus II	4
_____	MAT 201	Discrete Mathematics	3
_____	_____	Science Elective***	4
_____	_____	Free Elective	1-4
_____			15-18
 <u>SECOND YEAR - Fall Semester</u>			
_____	MAT 202	Linear Algebra	3
_____	MAT 221	Calculus III	4
_____	_____	Science Elective ***	4
_____	SPE 101	Oral Communication	3
			14
<u>Spring Semester</u>			
_____	MAT 205	Differential Equations	4
_____	MAT _____	Mathematics Elective	3-4
_____	_____	General Education Elective	3-4
_____	_____	Humanities Elective	3
_____	_____	Social Science Elective **	3
			16-18
<u>TOTAL MINIMUM CREDITS:</u>			60

* Students who need pre-requisite mathematics courses before beginning Calculus I will need more than 4 semesters to complete the degree.

** Students should consult the institutions to which they wish to transfer when selecting elective courses. Economics is recommended for social science elective.

*** A minimum of 8 credits in a two-semester laboratory science sequence is required. PHY 201 and 202 are recommended for most transfer institutions.