



[AS-MAT; CIP Code 27.0101]

**Associate in Science (A.S.) –
Transfer**

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.

Program Learning Outcomes

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

Program Contact

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✦ Are you ready to get
started at RCSJ?
Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll)
and complete the
interest form. ✦

Mathematics, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> MAT 108 Calculus I ¹	4
<input type="checkbox"/> CSC 101 Introduction to Programming	4
<input type="checkbox"/> ____ Social Science elective ²	3
<input type="checkbox"/> ____ Free elective	1-4
	15-18

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> MAT 122 Calculus II	4
<input type="checkbox"/> MAT 201 Discrete Mathematics	3
<input type="checkbox"/> ____ Science elective ³	4
<input type="checkbox"/> ____ Free elective	1-4
	15-18

SECOND YEAR – Fall Semester

<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> MAT 221 Calculus III	4
<input type="checkbox"/> ____ Science elective ³	4
<input type="checkbox"/> SPE 101 Oral Communication	3
	14

Spring Semester

<input type="checkbox"/> MAT 205 Differential Equations	4
<input type="checkbox"/> MAT ____ Mathematics elective	3-4
<input type="checkbox"/> ____ General Education elective	3-4
<input type="checkbox"/> ____ Humanities elective	3
<input type="checkbox"/> ____ Social Science elective ²	3
	16-18

TOTAL MINIMUM CREDITS: 80

Program Notes

¹ Students who need prerequisite Mathematics courses before beginning Calculus I will need more than four semesters to complete the degree

² Students should consult the institutions to which they wish to transfer when selecting elective courses. Economics is recommended for Social Science elective.

³ A minimum of eight credits in a two-semester laboratory science sequence is required. PHY 201 Physics I (calculus-based) and PHY 202 Physics II (calculus-based) are recommended for most transfer institutions.

Students planning to transfer to Rowan University should:

1. Take ECO 101 Principles of Economics I (Macro) and ECO 102 Principles of Economics II (Micro) as Social Science electives.
2. Take PHY 201 Physics I (calculus-based) and PHY 202 Physics II (calculus-based) as Science electives.
3. Take a four-credit science course as a General Education elective.