



[MATHAS; 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 should 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

Mathematics, A.S.

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
☐ MATH 130 Calculus I ¹	4
☐ CSCI 121 Introduction to Programming	4
☐ _____ General Education Social Science Elective ²	3
☐ _____ Free Elective	1–4
	15–19

Spring Semester

☐ ENGL 102 English Composition II	3
☐ MATH 140 Calculus II	4
☐ MATH 201 Discrete Mathematics	3
☐ _____ General Education Lab Science Elective ³	4
☐ _____ Free Elective ⁴	1–4
	15–18

SECOND YEAR – Fall Semester

☐ MATH 212 Linear Algebra	3
☐ MATH 225 Calculus III	4
☐ _____ General Education Lab Science Elective	4
☐ SPEH 101 Effective Speech	3
	14

Spring Semester

☐ MATH 230 Differential Equations	4
☐ MATH _____ General Education Mathematics Elective	3–4
☐ _____ General Education Elective	3–4
☐ _____ General Education Humanities Elective	3
☐ _____ General Education Social Science Elective ²	3
	16–18

TOTAL MINIMUM CREDITS: 60

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. PHYS 201 Physics with Calculus I and PHYS 202 Physics with Calculus II are recommended for most transfer institutions. Students planning to transfer to Rowan University should:

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

⁴ Suggested Program Elective: CSCI 125 Introduction to Data Science

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