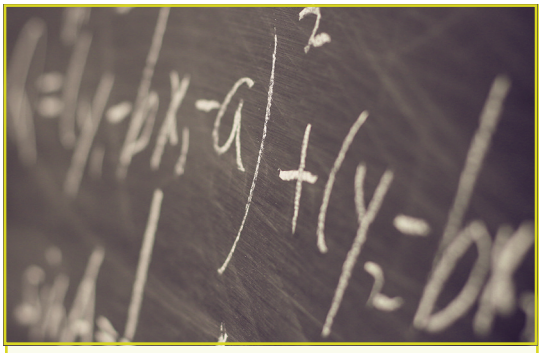

Mathematics, A.S.

[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

FIRST YEAR — Fall Semester

❑ ENGL 101 English Composition I ***or*** 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 216 Calculus III	4
❑ ____ ____ General Education Lab Science Elective	4
❑ SPEH 101 Effective Speech	3
	14

Spring Semester

❑ MATH 220 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 I (calculus-based) and PHYS 202 Physics II (calculus-based) are recommended for most transfer institutions. Students planning to transfer to Rowan University should:

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

[4] Suggested Program Elective Suggestion: CSCI 125 Data Science

Are you ready to get started at RCSJ? Visit ***RCSJ.edu/Enroll*** and complete the interest form.