



[ARTGAS; CIP Code 24.0101]

Associate in Science (A.S.) – Transfer

This program is designed for those students who have selected a major field of concentration and yet want more flexibility in course selection. The program is designed to meet transfer requirements for students pursuing a Bachelor of Science degree. It is suggested, however, that students seek advisement in course selection from the institutions to which they intend to transfer.

Program Learning Outcomes

Students who have completed the program should be able to:

- Demonstrate application of theoretical concepts and fundamental principles utilized in the sciences, including use of the scientific method
- Conduct background research on scientific topics to make educated conclusions and demonstrate ability to access and assess information including understanding of basic concepts, processes and keywords necessary to explore topics
- Communicate with others in written and oral form and present scientific information effectively
- Operate basic laboratory equipment successfully
- Apply critical thinking and problem-solving skills to solving scientific research problems including utilizing statistics and graphical analyses

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

Arts and Sciences, A.S.

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I or ENGL 101E Enhanced English Composition I	3–4
☐ CSCI 121 Introduction to Programming or CSCI 131 Intermediate Programming	4
☐ MATH 120 Pre-Calculus and Mathematical Analysis or MATH 121 Pre-calculus Mathematics or MATH 130 (Calculus I)	4
☐ _____ Science Elective Pair I (first semester) ¹	4
	15–16

Spring Semester

☐ ENGL 102 English Composition II	3
☐ MATH 130 Calculus I	4
☐ _____ STEM Elective ²	3–4
☐ _____ Science Elective Pair I (second semester) ¹	4
☐ _____ General Education Social Science or Humanities Elective	3
	17–18

SECOND YEAR – Fall Semester

☐ _____ Science Elective Pair II (first semester) ¹	4
☐ _____ General Education Humanities Elective	3
☐ _____ 200 Level Science Elective ³	3–4
☐ _____ Free Elective	1–4
	11–15

Spring Semester

☐ _____ Science Elective Pair II (second semester) ¹	4
☐ _____ 200-level Science Elective	4
☐ _____ Free Elective	3–4
☐ _____ Free Elective	3–4
☐ _____ General Education Social Science Elective	3
	17–19

TOTAL MINIMUM CREDITS: 60

Program Notes

Students must complete all Arts and Science (A.S.) required courses (41 credits) plus 24 credits selected from the Science Elective Pairs and designated courses.

Program Electives

¹ These are the Science elective Pairs. Two pairs of science electives may be selected from the following:

If you take this course in the first semester...	... you must take this course in the second semester
BIOL 101	BIOL 102
BIOL 105	BIOL 106
BIOL 112	BIOL 212
BIOL 115	BIOL 216
CHEM 111	CHEM 112
CHEM 201	CHEM 202
PHYS 103	PHYS 104
PHYS 201	PHYS 202

² One science courses must be selected from the following:

BIOL 101, BIOL 103, BIOL 104, BIOL 105, BIOL 107, BIOL 112, BIOL 113, BIOL 115, BIOL 116, BIOL 140, BIOL 209, BIOL 212, BIOL 215, BIOL 221, CHEM 111, CHEM 201, CHEM 215, MATH 122, MATH 201, MATH 229, PHYS 103, PHYS 105, PHYS 111, PHYS 112, PHYS 201, SCIN 201.

³ In addition to the two science elective pairs and a science elective a 200 level Science Elective course must be selected from the following: BIOL 209, BIOL 215, BIOL 216, BIOL 221, CHEM 201, CHEM 202, PHYS 201, PHYS 202