



[AS-ASC; 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 will 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

**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.

# Arts and Sciences, A.S.

**FIRST YEAR – Fall Semester**

|   |    |
|---|----|
| <input type="checkbox"/> ENG 101 English Composition I  | 3  |
| <input type="checkbox"/> CSC 101 Introduction to Programming or<br>CSC 111 Intermediate Programming | 4  |
| <input type="checkbox"/> MAT 110 Algebra and Trigonometry   | 4  |
| <input type="checkbox"/> ____ Science elective pair I (first semester) <sup>1</sup>                 | 4  |
|   | 15 |

**Spring Semester**

|   |    |
|---|----|
| <input type="checkbox"/> ENG 102 English Composition II                                       | 3  |
| <input type="checkbox"/> MAT 107 Pre-Calculus and Mathematical Analysis                       | 4  |
| <input type="checkbox"/> ____ Science elective pair I (second semester) <sup>1</sup>          | 4  |
| <input type="checkbox"/> ____ Social Science or<br>____ Humanities General Education elective | 3  |
|   | 14 |

**SECOND YEAR – Fall Semester**

|   |       |
|---|-------|
| <input type="checkbox"/> MAT 108 Calculus I   | 4     |
| <input type="checkbox"/> ____ Science elective pair II (first semester) <sup>1</sup>              | 4     |
| <input type="checkbox"/> ____ Science/Mathematics elective <sup>2</sup>                           | 4     |
| <input type="checkbox"/> ____ Humanities General Education elective                               | 3     |
| <input type="checkbox"/> HPE ____ Health and Physical Education elective or<br>____ Free elective | 1-4   |
|   | 16-19 |

**Spring Semester**

|   |    |
|---|----|
| <input type="checkbox"/> ____ Science elective pair II (second semester) <sup>1</sup> | 4  |
| <input type="checkbox"/> ____ 200-level Science elective <sup>3</sup>                 | 4  |
| <input type="checkbox"/> ____ General Education elective                              | 4  |
| <input type="checkbox"/> ____ Social Science General Education elective               | 3  |
|   | 15 |

**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.

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

|  |   |
|--|---|
| If you take this course<br>in the first semester ... | ... you must take this course<br>in the second semester |
| BIO 101  | BIO 102   |
| BIO 105  | BIO 106   |
| BIO 112  | BIO 212   |
| BIO 115  | BIO 216   |
| CHM 111  | CHM 112   |
| CHM 201  | CHM 202   |
| PHY 103  | PHY 104   |
| PHY 201  | PHY 202   |

<sup>2</sup> One science courses must be selected from the following:

BIO 101, BIO 103, BIO 104, BIO 105, BIO 107, BIO 112, BIO 113, BIO 115, BIO 116, BIO 140, BIO 209, BIO 212, BIO 215, BIO 221, CHM 111, CHM 201, CHM 215, MAT 122, MAT 201, MAT 229, PHY103, PHY 105, PHY 111, PHY 112, PHY 201, SCI 201.

<sup>3</sup> In addition to the two science elective pairs and a science elective a 200 level Science Elective course must be selected from the following: BIO 209, BIO 215, BIO 216, BIO 221, CHM 201, CHM 202, PHY 201, PHY 202