



[CHEM.AS; CIP Code 40.0501]

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

This curriculum provides two years of concentrated study in science for those who plan to pursue a baccalaureate degree in chemistry. Humanities and social science electives are incorporated to provide a broad educational experience. Students are advised to plan their course selection based on the requirements of the vocation or curriculum of the four-year college of their choice.

#### Program Learning Outcomes

Students who have completed the program will be able to:

- Students will demonstrate competency in fundamental inorganic and organic chemistry topics by applying critical thinking and problem solving skills to solving chemistry-based problems including utilizing graphical analyses.
- Develop and demonstrate the basic skill set of techniques and procedures, including recording and reporting of scientific information acquired in the laboratory, necessary to perform scientifically sound laboratory work in the chemical sciences.

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

## Chemistry, A.S.

### FIRST YEAR - Fall Semester

<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> BI 101 General Biology I	4
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> CH 101 General Chemistry I (Prog EI)	4
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### Spring Semester

<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> EN 103 Technical Writing	3
<input type="checkbox"/> CH 102 General Chemistry II (Prog EI)	4
	<hr/> 17-18

### SECOND YEAR - Fall Semester

<input type="checkbox"/> PI 141 General Physics I	4
<input type="checkbox"/> Program Elective	3-4
<input type="checkbox"/> General Education Humanities Elective	3
<input type="checkbox"/> CH 201 Organic Chemistry I (Prog EI)	4
	<hr/> 14-15

### Spring Semester

<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities	3
<input type="checkbox"/> General Education Social Science Elective	3
<input type="checkbox"/> CH 202 Organic Chemistry II (Prog EI)	4
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**TOTAL MINIMUM CREDITS: 60**

### Program Notes

1. It is highly recommended that students planning to transfer as pre-med or to any health science related program take BI 102 (General Biology II) as their General Education elective in First Year Spring Semester.
2. Program elective courses include: MA 210 (Calculus III), MA 208 (Linear Algebra), CS 111 (Computer Science I), or CS 112 (Computer Science II).
3. Students planning to transfer to Rowan University should:
  - a. Take a Social Science elective as social science or humanities elective.
  - b. Take CHEM 09250, Quantitative Analysis on Rowan University's campus in Spring semester of their second year if planning to major in Chemistry.
  - c. Take BMS 01205, Introduction to Biomedical Science I and BMS 01210, Introduction to Biomedical Sciences II during their Fall and Spring semesters of their second year respectively, if planning to major in Translational Biomedical Sciences.