



[AS-CHM; 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:

- Demonstrate competency in fundamental inorganic and organic chemistry topics by applying critical thinking and problem solving skills to solving chemistry/biology-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

#### Program Contact

Dr. Christina Nase, Associate Professor,  
 Chemistry  
[cnase@rcsj.edu](mailto:cnase@rcsj.edu)

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"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 108 Calculus I	4
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	15

#### Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> _____ General Education Elective <sup>1</sup>	3-4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> MAT 122 Calculus II	4
<input type="checkbox"/> COM 105 Technical and Scientific Writing	3
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	17-18

#### SECOND YEAR – Fall Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> PHY 201 Physics I (calculus-based)	4
<input type="checkbox"/> _____ Humanities General Education Elective	3
<input type="checkbox"/> _____ Program Elective <sup>2</sup>	3-4
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	14-15

#### Spring Semester

<input type="checkbox"/> CHM 202 Organic Chemistry II	4
<input type="checkbox"/> PHY 202 Physics II (calculus-based)	4
<input type="checkbox"/> _____ Social Science General Education Elective or _____ Humanities General Education Elective <sup>3</sup>	3
<input type="checkbox"/> _____ Social Science General Education elective	3
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	14

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

Students should consult the institutions to which they wish to transfer when selecting elective courses.

<sup>1</sup>.It is highly recommended that students planning to transfer as pre-med or to any health science related program take BIO 102 General Biology II as their General Education elective in First Year Spring Semester.

<sup>2</sup>.Program elective courses include: MAT 221 Calculus III, MAT 202 Linear Algebra, CSC 101 Introduction to Programming or CSC 111 Intermediate Programming.

<sup>3</sup>.Students planning to transfer to Rowan University should:

- Take a Social Science elective as social science or humanities elective.
- Take CHEM 09250, Quantitative Analysis on Rowan University's campus in Spring semester of their second year if planning to major in Chemistry.
- 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.