

# CHEMISTRY, ASSOCIATE IN SCIENCE

## Program Description

The Associate in Science in Chemistry is designed to prepare students to successfully transfer to a chemistry baccalaureate program. Participants in the program will enroll in the foundational courses that will prepare them for developing chemical concepts and laboratory technical skills. Students will receive exposure to critical thinking skills as well as a broad education in values, skills, and attitudes that will prepare them for roles across chemistry-related job positions.

## Transfer Information

Students pursuing the A.S. in Chemistry degree can build a comprehensive concentration in the area of chemistry in order to transfer into a B.S. in Chemistry. Students are encouraged to work closely with OCC faculty and Advising Transfer Services. Students planning to transfer to a four-year institution in NJ can explore the "Transfer Programs" feature on NJ Transfer [www.njtransfer.org](http://www.njtransfer.org) (<http://www.njtransfer.org/>).

## Career Information

The Associate of Arts and the Associate of Science Degrees are designed to provide students with the coursework needed to transfer to a four-year institution and pursue a bachelor's degree. The curriculum provides students the knowledge and skills needed to pursue various career pathways, while providing a credential beyond the high school degree. Students are strongly encouraged to consult with OCC faculty and Career Services as they begin to explore career options. Students can also utilize Career Coach, a resource provided by OCC, to explore degree programs and corresponding careers <https://ocean.emsicc.com/>

Students are encouraged to keep track of degree requirements by using the "My Progress" screen on Student Planning. Student Planning can be accessed via logging into Ocean Connect.

## Program Requirements

First Semester		Credit Hours
ENGL 151	English I	3.00000
MATH 265	Calculus I	4.00000
CHEM 181	General Chemistry I	4.00000
STSC 150	Student Success Seminar	2.00000
<b>Credit Hours</b>		<b>13</b>
Second Semester		Credit Hours
ENGL 152	English II	3.00000
MATH 266	Calculus II	4.00000
CHEM 182	General Chemistry II	4.00000
Humanities Gen. Ed. Requirement ( <a href="https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities">https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities</a> )		3
Technology Gen. Ed. Requirement ( <a href="https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#tech">https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#tech</a> ) <sup>1</sup>		3
<b>Credit Hours</b>		<b>17</b>
Third Semester		Credit Hours
MATH 267	Calculus III	4.00000
CHEM 283	Organic Chemistry I	4.00000
PHYS 171 or PHYS 281	Physics I <sup>2</sup> or General Physics I	4.00000

Social Science Gen. Ed. Requirement ( <a href="https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#social">https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#social</a> )		3
<b>Credit Hours</b>		<b>15</b>
Fourth Semester		Credit Hours
CHEM 284	Organic Chemistry II	4.00000
PHYS 172 or PHYS 282	Physics II <sup>2</sup> or General Physics II	4.00000
Humanities or Social Science Gen. Ed. Requirement ( <a href="https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities">https://catalog.ocean.edu/graduation-requirements-degree/approved-general-education-courses/#humanities</a> )		3
Elective		4
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>60</b>

- Students may attempt to "test out" of the technology requirement. If they succeed, they must take an additional course(s) in math or science from the List of Approved General Education Courses.
- Selection of course should be based on the requirements of the four-year institution.