

Associate of Science Degree

The chemistry program prepares students with an understanding of the fundamental principles of chemistry in a variety of applications. Students learn how chemical knowledge is derived, theorized, and applied in solving problems in everyday life. Learn more about the [degree requirements here](#).

Program Learning Outcomes

A student receiving a degree in this field will be able to:

- 1) Identify the basic areas of Chemistry that are appropriate to each Chemistry course. This content will allow students to continue in successive Chemistry courses, as well as relate the knowledge for matriculation and life-long learning.
- 2) Comprehend and use laboratory skills in synthetic, quantitative and instrumental methods as scientific approaches to gathering and verifying knowledge.
- 3) Demonstrate critical thinking in Chemistry including interpretation, evaluation, explanation and critical inquiry; how to ask appropriate questions, gather relevant information efficiently and creatively, sort through this information, reason logically from this information and come to reliable and trustworthy conclusions.
- 4) Collect, analyze and articulate results clearly and effectively in speech and in writing in an acceptable style of presentation.

Semester 1 – Fall – 14 Units	Units
ENGL 101 Freshman Composition	4
MATH 102 College Algebra	5
*CHEM 150 General Chemistry I	5

Semester 2 – Spring – 15 Units	Units
CHEM 151 General Chemistry II	5
Arts GE (Area C2)	1
Communication/Social Discourse GE (Area D2)	3
Degree Applicable Elective	3
Degree Applicable Elective	3

Semester 3 – Fall – 15 Units	Units
CHEM 212 Organic Chemistry I	4
Social and Behavioral Science GE (Area B)	3
Health and Wellness GE (Area E)	2
Degree Applicable Elective	3
Degree Applicable Elective	3

Semester 4 – Spring – 16 Units	Units
CHEM 213 Organic Chemistry II	4
Diversity and Multiculturalism GE (Area F1)	3
American Heritage GE (Area F2)	3
Humanities GE (Area C1)	3
Degree Applicable Elective	3

*Students are encouraged to have completed CHEM 101 Intro to Chemistry during the Summer term prior to beginning this Program Map or to follow the 3-Year program map.

Please see a counselor to develop your specific plan. [Schedule a counseling appointment here](#).

Catalog year: 2021-2022

Last Revised: 02/2022