

CHEMISTRY, ASSOCIATE IN SCIENCE

To earn an Associate in Science Degree with a major in Chemistry, students complete 20 specified units, plus General Education Degree Requirements. These major requirements optimize preparation for upper division course work for advanced degrees in Chemistry offered by four-year institutions. In addition, earning this degree suggests an achievement of technical skills that may be helpful in seeking immediate employment. For specific transfer institution requirements, students are encouraged to schedule an appointment with a counselor.

In addition to General Education degree requirements, complete the following:

Course ID	Title	Units/ Hours
General Education		
Required Courses		
CHEM M01A/M01AH	General Chemistry I	5
CHEM M01B	General Chemistry II	5
CHEM M07A	Organic Chemistry I	5
CHEM M07B	Organic Chemistry II	5
Total Units		20

Course ID	Title	Units/ Hours
Additional Recommended Preparation		
MATH M25A/M25AH	Calculus with Analytic Geometry I	5
PHYS M20A & M20AL	Mechanics of Solids and Fluids and Mechanics of Solids and Fluids Laboratory	5
PHYS M20B & M20BL	Thermodynamics, Electricity, and Magnetism and Thermodynamics, Electricity, and Magnetism Laboratory	5

Total Required Major Units: 20

MC General Education Pattern: 28

Double-Counted Units: 3

Electives to meet 60 associate degree units: 15.

Recommended these units come from the Additional Recommended Preparation area

Total Required for the AS Degree: 60

Upon successful completion of this program, students will be able to:

- use the process of scientific inquiry to qualitatively and quantitatively solve chemistry problems by gathering evidential information, analyzing data, forming appropriate conclusions, and communicating these results through written and oral expressions.
- demonstrate a mastery of organic chemistry material at a level equal to or greater than the national average as determined by the nationally standardized Organic Chemistry exam developed by the American Chemical Society (ACS) at the completion of the capstone class CHEM M07B Organic Chemistry II.