

Associate in Science for Transfer Degree

The Associate in Science-Transfer (AS-T) degree in Chemistry at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Chemistry or a related field of study. 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 to 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 – 17 Units	Units
*MATH 102 College Algebra	5
*CHEM 150 General Chemistry I	5
ENGL 101 Freshman Composition	4
Oral Communication GE (IGETC 1C)	3

Semester 2 – Spring – 16 Units	Units
MATH 103 Trigonometry	4
CHEM 151 General Chemistry II	5
Critical Thinking GE (IGETC 1B)	4
Arts GE (IGETC 3A)	3

Summer – 7 Units	Units
MATH 250 Single Variable Calculus I	4
HIST 100 or 101	3

Semester 3 – Fall – 15 Units	Units
MATH 251 Single Variable Calculus II	4
CHEM 212 Organic Chemistry I	4
PHYSIC 250 College Physics I	4
Humanities GE (IGETC 3B)	3

Semester 4 – Spring – 14 Units	Units
CHEM 213 Organic Chemistry II	4
PHYSIC 251 College Physics II	4
POLIT 100 American Politics	3
Biological Science GE (IGETC 5B)	3

*Math courses depend on the Placement Process. 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