



Chemistry A.S. Degree - CalGETC

The Chemistry Program consists of courses designed to meet transfer requirements for chemical, physical, and biological science majors.

Total Units: 74

First Year

Semester 1

19 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CHEM 400 General Chemistry I	5	Intermediate algebra or eligibility for transfer-level mathematics and CHEM 300, 305, 309, or 1 year of high school chemistry with lab.	F, S, Su	Cal-GETC Area 5A & 5C
MATH 400 Calculus I	5	MATH 370, or MATH 372 and MATH 373	F, S	Cal-GETC Area 2
CalGETC Area 1A-English Composition	3	Recommend meeting with a counselor	F, S, Su	Cal-GETC Area 1A
CRC Area 3A-Arts	3		F, S, Su	Cal-GETC Area 3A
CalGETC Area 6-Ethnic Studies	3		F, S, Su	Cal-GETC Area 6

Semester 2

17 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CHEM 401 General Chemistry II	5	CHEM 400	F, S	Cal-GETC Area 5A & 5C
MATH 401 Calculus II	5	MATH 400	F, S, Su	Cal-GETC Area 2
PHYS 411 Mechanics of Solids and Fluids	4	MATH 400	F, S, Su	Cal-GETC Area 5A
CalGETC Area 1B-Critical Thinking & Composition	3		F, S, Su	Cal-GETC Area 1B

Year 2

Career

Options/Outlook:

Chemists conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge. **Career opportunities require more than an associate degree.**

A sample of reported job titles:

Air Quality Chemist, Analytical Chemist, Chemical Laboratory Scientist, Chemist, Forensic Chemist, Forensic Scientist, Quality Control Chemist (QC Chemist), Research Chemist, Scientist, Senior Chemist

Projected job openings in California (2020-2030):

1,050

Projected growth in California (2020-2030):

17%

Median Salary in California with advanced degree (2021):

\$97,210/yr

Semester 3

20 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CHEM 420 Organic Chemistry I	5	CHEM 401	F, S	Cal-GETC Area 5A & 5C
MATH 402 Calculus III	5	MATH 401	F, S	Cal-GETC Area 2
PHYS 421 Electricity and Magnetism	4	MATH 401 & PHYS 411	F, S	Cal-GETC Area 5A
CalGETC Area 1C- Oral Communication	3		F, S, Su	Cal-GETC Area 1C
CalGETC Area 4- Social & Behavioral Sciences	3		F, S, Su	Cal-GETC Area 4

Semester 4

18 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CHEM 421 Organic Chemistry II	5	CHEM 420	F, S	Cal-GETC Area 5A & 5C
PHYS 431 Heat, Waves, Light and Modern Physics	4	MATH 401 & PHYS 411	F, S	Cal-GETC Area 5A
CalGETC Area 3B- Humanities	3		F, S, Su	Cal-GETC Area 3B
CalGETC Area 4- Social & Behavioral Sciences	3		F, S, Su	Cal-GETC Area 4
CalGETC Area 5B- Biological Sciences	3		F, S, Su	Cal-GETC Area 5B

Source:

O-Net Online

Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

General Education (GE):

Non-specified GE courses identified by CRC or Cal-GETC Area without pre- or co-requisites can be taken at any semester.

About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs](#) page of the college website.

