



Chemistry Associate of Science Degree

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

SUGGESTED PROGRAM COURSE SCHEDULE

SEMESTER 1

15/16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
CHEM 300¹ Beginning Chem.	4/5	MATH 100 or 102; Advisory: Completion or concurrent enrollment in MATH 120	F, S, Su	CRC Area IV
MATH 370 Pre-Calc.	5	MATH 335	F, S	CRC Area II(b)
CRC Area II(a) Writing competency	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
CRC Area V(a) American Institutions	3		F, S, Su	CRC Area V(a)

¹ not necessary if taken 1 year of high school chemistry with lab; if so, enroll in CHEM 400

² not necessary if placed in MATH 400

SEMESTER 2

13 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
MATH 400 Calculus I	5	MATH 370	F, S	CRC Area II(b)
CHEM 400 Gen. Chem. I	5	CHEM 300 or 1 yr of HS Chem + Lab	F, S, Su	CRC Area IV
CRC Area V(b) Social & Beh Sci Or taken in summer	3		F, S, Su	CRC Area V(b)

[^]You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (H) = hybrid available

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 (2016-2026):

1,220

Projected growth in California:

Faster than average (10%)

Salary in California:

Median wage (2018) with advanced degree: \$79,990/yr

Source:

<https://www.onetonline.org/link/summary/19-2031.00>

SEMESTER 3 (Summer)**4 UNITS**

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
PHYS 411 Mechanics of Solids & Fluids	4	MATH 400	F, S, Su	CRC Area IV

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*(O) = online available (H) = hybrid available

SEMESTER 4**14 UNITS**

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
MATH 401 Calculus II	5	MATH 400	F, S	CRC Area II(b)
CHEM 401 Gen. Chem. II	5	CHEM 400	F, S	
CRC Area III(b) Life Development Skills Or taken in summer	3		F, S, Su	CRC Area III(b)
CRC Area III(a) Physical Edu Activity	1		F, S, Su	CRC Area III(a)

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 Area, CSU Area or IGETC Area without pre- or co-requisite can be taken at any semester.

SEMESTER 5**14 UNITS**

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
MATH 402 Calculus III	5	MATH 401	F, S	CRC Area II(b)
CHEM 420 Organic Chemistry I	5	CHEM 401	F, S	
PHYS 421 Electricity and Magnetism	4	MATH 401 & PHYS 411	F, S	

SEMESTER 6

15 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
CHEM 421 Organic Chemistry I	5	CHEM 420	F, S	
PHYS 431 Heat, Waves, Light, & Modern Phys.	4	MATH 401 & PHYS 411	F, S	
CRC Area I Humanities Or taken in summer	3		F, S, Su	
CRC Area VI Ethnic/Multicultural Studies Or taken in summer	3		F, S, Su	

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