

Note: Course Dates indicate Beginning and Ending Dates

M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=

CRN	Instructor	Days	Time	Room	D	CRN	Instructor	Days	Time	Room	D
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## Chemistry

### CHEM 103 College Chemistry

5 Units

Prerequisite: Completion of MATH 130 with minimum grade of C.

The first semester of a year program includes chemistry of inorganic compounds; covers topics of nomenclature, stoichiometry, bonding, chemical equations, gas laws, solutions, acids and bases, nuclear processes and chemical equilibrium. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy, and home economics. 72 lecture hours, 72 lab hours. CSU UC

30301	Farnum, M.	MW	05:00 PM-07:05 PM	PS 222	02/22-06/16
	Farnum, M.	MW	07:06 PM-09:10 PM	PS 222	02/22-06/16
30302	Farahani, B.	TR	02:00 PM-04:05 PM	LH 103	02/22-06/16
	Farahani, B.	TR	04:06 PM-06:10 PM	LH 103	02/22-06/16
30300	Ryba, D.	F	08:30 AM-12:45 PM	PS 222	02/22-06/16
	Ryba, D.	HRS-ARRG			02/22-06/16

**DISTANCE EDUCATION HYBRID CLASS** After registering go to [www.citruscollege.edu/de](http://www.citruscollege.edu/de). Mandatory lab meets on campus. Online work also required.

### CHEM 104 College Chemistry

5 Units

Prerequisite: CHEM 103 or CHEM 110.

The second semester of a year program includes chemistry of organic compounds; covers topics in biochemistry including carbohydrates, fats, proteins, metabolism, nucleic acids, and nutrition. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy and home economics. 72 lecture hours, 72 lab hours. CSU UC

30328	Farahani, B.	MW	05:00 PM-07:05 PM	PS 113	02/22-06/16
	Farahani, B.	MW	07:06 PM-09:10 PM	PS 113	02/22-06/16

### CHEM 110 Beginning General Chemistry

5 Units

Prerequisite: MATH 150 or concurrent enrollment.

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.

An introductory course in the fundamental principles of chemistry. Topics covered are those necessary for understanding chemical structure and reactivity, and for scientific calculations. There is an emphasis on laboratory work and communication skills. The course is designed for science and engineering majors, pre-medical students, and as a general education class. 54 lecture hours, 126 lab hours. CSU UC

30329	Miles, T.	MW	11:30 AM-12:55 PM	PS 113	02/22-06/16
					<b>Lecture section only. Lab section also required.</b>
30330	Ryba, D.	TR	11:30 AM-12:55 PM	PS 113	02/22-06/16
					<b>Lecture section only. Lab section also required.</b>
30331	Montgomery, R.	TR	04:55 PM-06:20 PM	PS 113	02/22-06/16
					<b>Lecture section only. Lab section also required.</b>
30332	Li, X.	MW	07:35 AM-11:10 AM	PS 222	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
30333	Farahani, B.	TR	07:35 AM-11:10 AM	PS 222	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
30334	Ryba, D.	TR	01:10 PM-04:45 PM	PS 222	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
30335	Miles, T.	MW	01:10 PM-04:45 PM	PS 222	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
30337	Montgomery, R.	TR	06:30 PM-10:05 PM	PS 222	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>

### CHEM 111 General Chemistry

5 Units

Prerequisite: MATH 150. Passing score on Chemistry Placement Test or CHEM 110.

A general course in the fundamental principles of chemistry. Topics covered include periodicity, stoichiometry, nomenclature, atomic structure, bonding, chemical calculations, thermodynamics, intermolecular forces, gases and organic chemistry. The course is designed for all science and engineering majors and pre-medical students. 54 lecture hours, 126 lab hours. CSU UC

30343	Entus, R.	TR	11:30 AM-12:55 PM	PS 107	02/22-06/16
					<b>Lecture section only. Lab section also required.</b>
30344	Entus, R.	TR	07:35 AM-11:10 AM	PS 211	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
30345	Smyth, N.	TR	01:10 PM-04:45 PM	PS 211	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>

### CHEM 112 General Chemistry

5 Units

Prerequisite: CHEM 111.

A general course in the fundamental principles of chemistry. Chemistry 112 is a continuation of Chemistry 111 and includes topics of equilibrium, kinetics, acid-base chemistry, electrochemistry, nuclear processes, coordination chemistry and thermodynamics. 54 lecture hours, 126 lab hours. CSU UC

30346	Miles, T.	TR	11:30 AM-12:55 PM	PS 222	02/22-06/16
					<b>Lecture section only. Lab section also required.</b>
30347	Miles, T.	TR	07:35 AM-11:10 AM	PS 203	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>
31006	Miles, T.	MW	07:35 AM-11:10 AM	PS 203	02/22-06/16
					<b>Lab section only. Lecture section also required.</b>

### CHEM 220 Organic Chemistry

3 Units

Prerequisite: CHEM 210.

A course in organic chemistry including the properties and reactions of aromatic compounds, aldehydes, ketones, carboxylic acid derivatives, enols, enolates, amines, and selected topics in biochemistry, NMR, and mass spectrometry.

Second semester course required for students in pre-professional programs in medicine, dentistry, pharmacy, veterinary science, biology, and chemistry. CHEM 221L is required concurrently for most of the stated majors. 54 lecture hours. CSU UC

30348	Farahani, B.	MW	07:40 AM-09:05 AM	PS 113	02/22-06/16
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### CHEM 221L Organic Chemistry Laboratory

1 Units

Prerequisite: CHEM 220 or

Corequisite: CHEM 220.

Synthesis of selected organic compounds, including multi-step processes, techniques of column chromatography, IR spectroscopy. 54 lab hours. CSU UC

30349	Farahani, B.	F	08:10 AM-11:20 AM	PS 211	02/22-06/16
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