Chemistry, Minor

Do you enjoy thinking about scientific problems at the molecular level but have an interest in many different areas? A minor in chemistry may be just right for you. This minor provides strong foundational knowledge in the discipline of chemistry through both theoretical and experimental courses.

Description

The chemistry minor is designed to give students majoring in other disciplines a solid grounding in the basics of chemistry in order to complement their major degree. It is especially appropriate for students whose majors are in the various disciplines of physics, materials science, geology, engineering and life sciences.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus

Program Requirements

Minor Map (Archives)
- 2019 - 2020 Minor Map

The minor in chemistry comprises 28 credit hours of required courses, of which at least 12 credit hours must be completed at the upper-division level. Six of the 12 upper-division credit hours must be taken from courses offered by the College of Liberal Arts and Sciences. All courses must be completed with a grade of "C" (2.00 on a 4.00 scale) or higher.

Required Courses -- 20 credit hours
CHM 113: General Chemistry I (SQ) or CHM 117: General Chemistry for Majors I (SQ) AND CHM 111: General Chemistry Laboratory for Majors I (SQ) (4)

Notes: Students who complete CHM 117 must also complete the corresponding CHM 111 lab.
Prerequisites for CHM 113 or CHM 117 include CHM 101 with C or better, or ALEKS score of 61 or higher, OR Pre- or corequisite(s): MAT 170, 171, 210, 251, 265 or 270 with C or better if completed

CHM 116: General Chemistry II (SQ) or CHM 118: General Chemistry for Majors II (SQ) AND CHM 112: General Chemistry Laboratory for Majors II (SQ) (4)

Notes: Students who complete CHM 118 must also complete the corresponding CHM 112 lab.

CHM 233: General Organic Chemistry I (3)
CHM 234: General Organic Chemistry II (3)
CHM 237: General Organic Chemistry Laboratory I (1)
CHM 238: General Organic Chemistry Laboratory II (1)
CHM 325: Analytical Chemistry (3)
CHM 326: Advanced Analytical Chemistry Laboratory (1)

Options -- 8 credit hours

Choose one of the following options for the additional 8 credit hours. (8)

Option 1

BCH 361: Advanced Principles of Biochemistry (3)
BCH 367: Elementary Biochemistry Laboratory (1)
CHM 341: Elementary Physical Chemistry (3)

Notes: Prerequisites for CHM 341 include CHM 114, 116 or 118 with "C" or better; CHM 231, 233 or 333 with "C" or better; MAT 251, 265 or 270 with "C" or better; and PHY 101, 112 or 131 with "C" or better.

CHM 343: Elementary Physical Chemistry Laboratory (1)

Option 2

CHM 345: Physical Chemistry I (3)

Notes: Prerequisites for CHM 345 include CHM 116 or 118 with "C" or better; CHM 240 or PHY 201 OR both MAT 274 (or MAT 275) and MAT 242 (or MAT 342 or 343) with "C" or better; MAT 267 or 272 with "C" or better; and PHY 131 or 151 with "C" or better.

CHM 346: Physical Chemistry II (3)
CHM 348: Physical Chemistry Laboratory I (L) (1)
CHM 349: Physical Chemistry Laboratory II (L) (1)

Some courses require prerequisite work in calculus and physics.

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.
Enrollment Requirements

GPA Requirement: 2.00

Incompatible Majors: BS in applied biological sciences (all concentrations); BS and BA in biochemistry; BS in biochemistry (medicinal chemistry); BS and BA in chemistry; BS in chemistry (environmental chemistry); BS in forensic science; BS in health sciences preprofessional; BS in nutrition; BS in nutrition (human nutrition)

Other Enrollment Requirements: None

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Students interested in pursuing a minor should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and the minor. Students should contact their academic advisor for more information.

Contact Information

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