Chemistry, Minor

LACHMMIN

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 program provides strong foundational knowledge through both theoretical and experimental courses.

Description

The chemistry minor program 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)
2021 - 2022 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)
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)
CHM 233: General Organic Chemistry I (3)
CHM 237: General Organic Chemistry Laboratory I (1)
CHM 234: General Organic Chemistry II (3)
CHM 238: General Organic Chemistry Laboratory II (1)
CHM 325: Analytical Chemistry (3)
CHM 326: Advanced Analytical Chemistry Laboratory (1)

Notes: CHM 325 and CHM 326 should be completed at the Tempe campus for this minor.

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: BCH 341 may not be used to substitute CHM 341.
CHM 343: Elementary Physical Chemistry Laboratory (1)

Option 2
CHM 345: Physical Chemistry I (3)

Notes: CHM 345 and CHM 348 are only offered in the Fall semester.
CHM 348: Physical Chemistry Laboratory I (L) (1)
CHM 346: Physical Chemistry II (3)

Notes: CHM 346 and CHM 349 are only offered in the Spring semester.
CHM 349: Physical Chemistry Laboratory II (L) (1)

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.

**Career Opportunities**

A minor can help students enhance the marketable skills they acquire in their major program and help them develop new skills apart from it. A chemistry minor can benefit those who pursue careers in chemical and electronics industries, manufacturing and environmental industries, in national research labs and forensic labs.

**Contact Information**

[School of Molecular Sciences](mailto:School of Molecular Sciences) | PSD 104
[SMSadvising@asu.edu](mailto:SMSadvising@asu.edu) | 480-965-7667