



## Chemistry Minor 2021-2022 Catalog

A minor in chemistry requires a minimum cumulative GPA of 2.0 in courses counting towards the minor. Students choosing chemistry as a teaching minor for secondary certification are required to have a minimum cumulative GPA of 2.7 in the minor courses.

### Complete all of the following:

- \_\_\_\_\_ CHM 115 – Principles of Chemistry (4 cr.)  
(Prereqs: High School Chemistry, MTH 110 or MTH 122 or MTH 125 or MTH 201)
- \_\_\_\_\_ CHM 116 – Principles of Chemistry II (5 cr.) (Prereqs: CHM 115 and MTH 122 or MTH 124 or MTH 125 or MTH 201)
- \_\_\_\_\_ CHM 221 – Survey of Analytical Chemistry (4 cr.) (Prereq: CHM 116 or one full year of General Chemistry)
- \_\_\_\_\_ CHM 241 – Organic Chemistry for Life Sciences I (5 cr.) (Prereq: CHM 116)  
**OR** CHM 245 – Principles of Organic Chemistry I (4 cr.) (Prereq: CHM 116, Coreq: CHM 246)  
**AND** CHM 246 – Principles of Organic Chemistry I Lab (1 cr.) (Prereq: CHM 116, Coreq: CHM 245)
- \_\_\_\_\_ CHM 242 – Organic Chemistry for Life Sciences II (4 cr.) (Prereq: CHM 241)  
**OR** CHM 247 – Principles of Organic Chemistry II (3 cr.) (Prereq: CHM 245/246, Coreq: CHM 248)  
**AND** CHM 248 – Principles of Organic Chemistry II Lab (1 cr.) (Prereq: CHM 245/246, Coreq: CHM 247)

### Choose one elective from the following courses\*\*:

- \_\_\_\_\_ CHM 232 – Biological Chemistry (4 cr.) (Prereq: CHM 231)
- \_\_\_\_\_ CHM 273 – Principles of Inorganic Chemistry (3 cr.) (Prereq: CHM 116)
- \_\_\_\_\_ CHM 351 – Introduction to Physical Chemistry (3 cr.)  
(Prereqs: CHM 116, MTH 201, and PHY 220 (may be taken concurrently))
- \_\_\_\_\_ CHM 421 – Green Chemistry for Sustainable Environment (3 cr.)  
(Prereq: One of CHM 231, CHM 242, or CHM 247)
- \_\_\_\_\_ CHM 442 – Synthetic Polymers: Life Cycle and Emerging Sustainable Technologies (3 cr.)  
(Prereqs: CHM 242 or CHM 247)
- \_\_\_\_\_ CHM 461 – Biochemistry I (4 cr.) (Prereq: CHM 242, CHM 247 or CHM 248)
- \_\_\_\_\_ SCI 440- Physics and Chemistry in Secondary Education (3cr.)  
(Prereqs: Junior Standing, CHM 116, and PHY 221 or PHY 231)

\*\*A chemistry minor for **teacher certification** requires the following course and a minimum GPA of 2.7 in chemistry courses applied to the minor:

- \_\_\_\_\_ SCI 440- Physics and Chemistry in Secondary Education (3cr.)  
(Prereqs: Junior Standing, CHM 116, and PHY 220 or 221 (221 can be taken concurrently))

It is imperative to meet with your faculty advisor or an advisor in the CLAS Academic Advising Center early in your career.

The CLAS Academic Advising Center is located in C-1-120 & 140 MAK, 616-331-8585.

Online at: <http://www.gvsu.edu/clasadvising>

Prepared by CLAS Academic Advising Center – updated 04/05/21