

# **Glen Oaks Community College**

2025/26

# **Western Michigan University Chemistry Curriculum Guide**

# The WMU Department of Chemistry offers a choice of four majors:

- Chemistry major this 35-credit hour major in the College of Arts & Sciences is designed for students interested in graduate studies in chemistry. This major also suits students interested in teaching chemistry at the middle/high school level after completion of a Master of Arts in Teaching: Secondary Education.
- **Biochemistry** this 36-credit hour major is recommended for students interested in careers in health sciences (medicine, dentistry, nutrition, pharmacology, etc.) or a graduate career in biochemistry or molecular biology.
- Business-oriented chemistry major this 37-credit hour major is available to provide the chemical understanding needed if you are preparing for a career in the chemical industry, outside the laboratory. A minor will be chosen in the Haworth College of Business, and students are prepared to enter areas of management, sales, and some aspects of government service.
- Geochemistry major this 68-credit hour major is designed for students interested in the fields
  of geochemistry or environmental chemistry and is advised in the department of Geological and
  Environmental Sciences.

## **Important Information:**

- You must meet one of the following math requirements: MATH ACT score of 27 or higher or MATH SAT score of 640 or successful completion of MATH 1110 (MATH 104 at GOCC) with a grade of a "C" or higher or score 61% on the ALEKS math placement exam. More information about the ALEKS math placement can be found at <a href="https://wmich.edu/math/placement">https://wmich.edu/math/placement</a>.
- All chemistry majors must meet with the College of Arts and Sciences chemistry advisor about major or minor, WES, and degree requirements. You must make an advising appointment to declare your major or minor.
- Chemistry majors must complete a minor (except Geochemistry). Business-oriented chemistry
  majors will be required to complete a minor in General Business, Management, or Marketing in
  the Haworth College of Business (HCoB).
- Chemistry majors must complete their last 14 credit hours in the department of Chemistry at WMU.
- Chemistry minors must complete at least 8 credits at WMU.

#### Courses that can be taken at Glen Oaks:

WMU courses	Glen Oaks courses
CHEM 1100   1110	CHEM 133
CHEM 1120 1130	CHEM 134
CHEM 3750 3760	CHEM 210 (elective for Geochem majors)
CHEM 3770   3780	CHEM 211 (elective for Geochem majors)
MATH 1220	MATH 161
MATH 1230	MATH 162
PHYS 2050   2060	PHYS 251 (elective for Geochem majors)
PHYS 2070   2080	PHYS 253 (elective for Geochem majors)
Business-oriented majors may take these additional courses:	
ACTY 2100	ACCT 111
BUS 1750	BUS 104
MGMT 2500	BUS 251
MKTG 2500	BUS 250
Biochemistry majors may take these additional courses:	
BIOS 1610	BIO 121
BIOS 1620	BIO 122

# Geochemistry majors may take these courses:

\*\*Very important note: Geochemistry majors only need the following Chemistry courses: CHEM 133, 134, and CHEM 2250 | 2260 (not available at GOCC), and 9 hours of upper-level Chemistry coursework. You will also need 11 credits of Math and General Science (below), and 9 credits of Geoscience electives (not available taken GOCC).

# Required:

GEOS 1300	GEOL 145
Math and General Science or Chemistry electives:	
BIOS 2320	BIO 230
CHEM 3750 3760	CHEM 210
PHYS 2050   2060	PHYS 251
PHYS 2070   2080	PHYS 253

# **General education requirements:**

- Please refer to the <u>WMU Essential Studies (WES) transfer guide</u> that lists courses meeting WES requirements at WMU that may be taken at Glen Oaks.
- All students graduating from the College of Arts & Sciences must complete the College of Arts and Sciences Essentials (CASE). This includes world language proficiency (detailed in next bullet point), ENGL 1050/1060 sequence, and by completing the baccalaureate writing requirement.
- All students graduating from the College of Arts & Sciences must meet the world language proficiency by completing two semesters (6-8 hours) of the same foreign language or American Sign Language or passing WMU's proficiency by exam. Please contact the College of Arts & Sciences Undergraduate Advising Office at (269) 387-4366 with any questions. Neither the MACRAO Agreement nor the Michigan Transfer Agreement satisfy the world language requirement.

- If the student's first language is not English, the student is exempt from this requirement. Determination of eligibility for this exemption is based on whether the student was required to take the TOEFL test for admission and can be verified through the WMU departments of Spanish or World Languages and Literatures.
- You may email the WMU advisors in the College of Arts & Sciences for further clarification about
   WES or CASE.

## **Contact information:**

Chemistry Advisor
College of Arts & Sciences
Department of Chemistry
wmich.edu/chemistry/advising
chem-advising@wmich.edu
(269) 387-4341

For general education advising or world language requirement questions: wmich.edu/arts-sciences/advising