The WMU Department of Chemistry offers a choice of six majors:

- **Chemistry major** – this 35 credit hour major in the College of Arts and Sciences Liberal Education Curriculum (LEC) is designed for students interested in graduate studies in chemistry;
- **Chemistry major ACS Certified** - this 42 credit hour major is certified by the American Chemical Society and is for students planning to enter the chemical industry, though it may be taken by students planning on graduate school study of chemistry;
- **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** – students choosing this 68 credit hour major should contact the department of Geosciences as early as possible for advising. The major is designed for students interested in the fields of geochemistry or environmental chemistry
- **Secondary education chemistry major** - this 34 credit hour major is designed for students who desire to teach high school chemistry. Secondary education majors must meet with a College of Education and Human Development (CEHD) advisor for general education, pre-professional, and professional education requirements. To view the curriculum guide for this major, please go to the list of all major guides and select the chemistry guide listed under “Secondary Education.”

**Important Information:**

- To ensure that you possess adequate skills in chemistry, you must have had one year of high school chemistry. Otherwise you must enroll in CHEM 1000 (CHM 099 at GCC) to build up your background in chemistry;
In addition, chemistry students must meet one of the following math requirements:
- MATH ACT score of 25 or higher, successful completion of MATH 1110 (MTH 104 at GCC) with a grade of a “C” or higher, or place into MATH 1180 (MTH 110 at GCC) or a higher math course;
- All chemistry majors must meet with a chemistry department advisor about major or minor requirements. You must make an advising appointment to declare your major or minor;
- For general education (see below) requirements, you must meet with a College of Arts and Sciences (CAS) advisor;
- Business-oriented chemistry majors will be required to complete a minor in General Business, Management, or Marketing in the Haworth College of Business (HCoB);

If your major is chemistry, you must complete your last 14 credits hours in the Department of Chemistry at WMU;

Courses that can be taken at Gogebic:

<table>
<thead>
<tr>
<th>WMU courses</th>
<th>Gogebic courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1100/1110</td>
<td>CHM 151</td>
</tr>
<tr>
<td>CHEM 1120/1130</td>
<td>CHM 152</td>
</tr>
<tr>
<td>CHEM 3750/3760</td>
<td>CHM 201 (not required for Geochem majors)</td>
</tr>
<tr>
<td>CHEM 3770/3780</td>
<td>CHM 202 (not required for Geochem majors)</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>MTH 150</td>
</tr>
<tr>
<td>MATH 1230</td>
<td>MTH 151</td>
</tr>
<tr>
<td>MATH 2720</td>
<td>MTH 152 (not required for Geochem majors)</td>
</tr>
<tr>
<td>PHYS 2050/2060</td>
<td>PHY 251 (not required for Geochem majors)</td>
</tr>
<tr>
<td>PHYS 2070/2080</td>
<td>PHY 252 (not required for Geochem majors)</td>
</tr>
</tbody>
</table>

Business-oriented majors may take these additional courses:
- BUS 1750
- MGMT 2500
- MKTG 2500
- ACTY 2100

Biochemistry majors may take this additional course:
- BIOS 1620

Geochemistry majors may take these courses:

***Very important note:*** Geochemistry majors only need the following Chemistry courses:
- CHM 151, 152, CHEM 2250/2260 (not available at GCC), and 9 hours of **upper level Chemistry** course-work. You will also need 11 credits of **Math and General Science** (below), and 9 credits
of Geoscience electives (taken at WMU).

**Required:**

GEOS 1300  
GLG 102

**Will transfer as “Math and General Science” or Chemistry electives:**

CHEM 3750/3760  
CHM 201

CHEM 3770/3780  
CHM 202

BIOS 2320  
BIO 215

MATH 2720  
MTH 152

MATH 3740  
MTH 220

PHYS 2050/2060  
PHY 251

PHYS 2070/2080  
PHY 252

**General education requirements:**

- Please see the WMU [general education guide](#) for information on the courses that are required from all students, as part of the graduation requirements at WMU;

- All chemistry majors (except education majors) will be required to complete the world languages requirement. You can do so in one of the following ways:
  
  - Take two years of one high school language, with a B- or higher in the last semester, or at any point after that if more than two years are completed;
  
  - Take two semesters of one language in college;
  
  - Pass a language proficiency test. Please contact the WMU World Languages department for languages other than Spanish, and the Spanish department for that language. Neither the MACRAO Agreement nor the Michigan Transfer Agreement satisfy the world languages requirement;

- American Sign Language may also be used to meet this requirement;

- If the student’s first language is not English, then the student is exempt from this requirement, verified through the WMU departments of Spanish or World Languages and Literatures.

**Contact information:**

**Chemistry department advisors:**

Dr. Steve Bertman  
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(269) 387-2866

Dr. John Miller  
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(269) 387-2871

Dr. Donald Schreiber  
donald.schreiber@wmich.edu  
(269) 387-2856

Dr. Robert Sutton  
robert.e.sutton@wmich.edu  
(269) 387-2834
Chemistry Satellite Office, 2220 Chemistry Building
http://wmich.edu/chemistry/advising, for appointments

General education advising:
CAS advisors – 2318 Friedmann Hall
wmich.edu/arts-sciences/advising or (269) 387-4366

Business-chemistry advising:
Paul Hildenbrand - Hayworth College of Business
paul.hildenbrand@wmich.edu or (269) 387-5085

Geochemistry advising:
Dr. Michelle Kominz - 1187 Rood Hall
michelle.kominz@wmich.edu or (269) 387-5486