CHEMISTRY, MINOR

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Thus, a minor in chemistry nicely complements any other science major.

Our alumni go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

The minor in Chemistry consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM.

Students must maintain an average GPA of 2.0 in all minor courses attempted at UWM. In addition, students must attain a 2.0 GPA on all minor courses attempted, including any transfer work. CHEM 106 does not count toward the minor and is not included in the minor GPA. For further information regarding degree requirements, see the Chemistry Academic Undergraduate Advisor, Gloria Freschl. Please bring a copy of your transcript when meeting with the advisor to declare a major.

Unofficial, free-of-charge UWM transcripts may be obtained from the Department of Enrollment Services in Mellencamp Hall, Room 274.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
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<td>Select one course from three of the following areas:</td>
<td>5-10</td>
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**Analytical:**
- CHEM 221  Elementary Quantitative Analysis
- CHEM 524  Instrumental Analysis

**Biochemistry:**
- CHEM 501  Introduction to Biochemistry
- CHEM 601  Biochemistry: Protein Structure and Function
- CHEM 602  Biochemistry: Cellular Processes
- CHEM 603  Introduction to Biochemistry Laboratory
- CHEM 604  Biochemistry: Metabolism

**Inorganic:**
- CHEM 311  Introduction to Inorganic Chemistry
- CHEM 511  Inorganic Chemistry
- CHEM 614  Bio-Inorganic Chemistry

**Organic:**
- CHEM 341  Introductory Survey of Organic Chemistry
- CHEM 342  Introductory Organic Chemistry Laboratory
- CHEM 343  Organic Chemistry
- CHEM 344  Organic Chemistry Laboratory
- CHEM 345  Organic Chemistry

**Physical:**
- CHEM 560  Biophysical Chemistry
- CHEM 561  Physical Chemistry I
- CHEM 562  Physical Chemistry II
- CHEM 563  Physical Chemistry Laboratory

Total Credits 15-20

1. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 prior to enrolling in CHEM 102.
2. At least one course with a laboratory, beyond general chemistry, must be taken.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/chemistry/undergraduate/