CHEMISTRY  Bachelor of Science  (BS)  A13A

At least 120 hours are required for graduation, and students must earn a 2.0 overall GPA, a 2.0 WSU GPA, and a 2.0 GPA in the major. Students must also complete all courses required for Liberal Arts and Sciences General Education.

Must meet with Chemistry Advisor upon declaration of major.

Requirements For Major (and their necessary prerequisites):  52 hours

ALL  CHEM 211  General Chemistry I (5)
ALL  CHEM 212  General Chemistry II (5)
FL  CHEM 514  Inorganic Chemistry (3)
FL  CHEM 523  Analytical Chemistry (4)
SP  CHEM 524  Instrumental Methods of Chemical Analysis (4)
ALL  CHEM 531  Organic Chemistry I (5)
FL&SP  CHEM 532  Organic Chemistry II (5)
FL  CHEM 545  Physical Chemistry I (3)
SP  CHEM 546  Physical Chemistry II (3)
FL  CHEM 547  Physical Chemistry Laboratory (2)
SP  CHEM 615  Advanced Inorganic Chemistry (3)
SP  CHEM 616  Inorganic Chemistry Laboratory (2)
SP  Either  CHEM 661  Introductory Biochemistry (3)
FL or BOTH  CHEM 662  Biochemistry I (3)
SP  AND  CHEM 663*  Biochemistry II (3)
ALL  CHEM 690  Independent Study and Research (2)

*CHEM 663 fulfills 3 of the 4 additional hours of professional elective courses required from category A.

Other Required Courses (and their necessary prerequisites):  32 hours

FL & SP  BIOL 210  General Biology I (4)
ALL  MATH 112  Pre-calculus Mathematics (5) (or equivalent)
ALL  MATH 242  Calculus I (5)
ALL  MATH 243  Calculus II (5)
ALL  MATH 344  Calculus III (3)
FL & SP  PHYS 313  Physics for Scientists I (4)
FL & SP  PHYS 315  University Physics Laboratory I (1)
FL & SP  PHYS 314  Physics for Scientists II (4)
SP  PHYS 316  University Physics Laboratory II (1)

Four more hours of elective courses, taken in consultation with the Undergraduate Advising Committee of the Department of Chemistry. Courses from the area below will satisfy this requirement.

(A) Additional Chemistry courses selected from CHEM 600-799 excluding CHEM 700 and 701.

CHEM  ____________________________________________

CHEM  ____________________________________________

(B) Advanced Biology courses from the following (with 1 year of General Biology as prerequisite):

BIOL 419  Genetics (4)
BIOL 420  Molecular Cell Biology (4)
BIOL 590  Immunobiology (3)

(C) Math courses with MATH 344 as prerequisite or MATH 555.

MATH  ____________________________________________

(D) Physics courses with Phys 314 as prerequisite (non-laboratory courses)

PHYS  ____________________________________________

(E) Foreign Language:  one academic year of German or French

________________________________________________

________________________________________________

(F) Other Courses as approved by the Undergraduate Affairs Committee.

________________________________________________

________________________________________________

Contact Dept. Office to arrange an advising appointment (978-3120, 206 McKinley Hall)

Dr. David Eichhorn, Chair
Department of Chemistry
206 McKinley Hall, 978-3120
**Requirements For Minor:** Minimum of **16 hours** of chemistry (4 courses) and a minimum GPA of 2.0 in chemistry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>212</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
</tbody>
</table>

At least **6 credit hours** of chemistry must be chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>514</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>523</td>
<td>Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>524</td>
<td>Instrumental Methods of Chemical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>531</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>532</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>545</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>546</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>661</td>
<td>Introductory Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Contact Dept. Office to arrange an advising appointment (978-3120, 206 McKinley Hall)**

Dr. David Eichhorn, Chair
Department of Chemistry
206 McKinley Hall, 978-3120