Chemistry Major, Research Emphasis Suggested Schedule

Suggested schedules are not meant to prescribe when you take a class. They simply tell you what semesters a given class is offered and guides you to choose courses to help you progress in an orderly way towards graduation. For more information, look at the course bulletin online at www.millikin.edu/bulletin/.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CH 121 General Chemistry</td>
<td>CH 224 General Inorganic Chemistry§</td>
</tr>
<tr>
<td>CH 151 Introductory Lab I</td>
<td>CH 152 Introductory Lab II</td>
</tr>
<tr>
<td>IN 140 University Seminar</td>
<td>CO Oral Communication</td>
</tr>
<tr>
<td>IN 150 Critical Writing, Reading, Research I</td>
<td>IN 151 Critical Writing, Reading, Research II</td>
</tr>
<tr>
<td>Mathematics (determined by placement)</td>
<td>Mathematics</td>
</tr>
<tr>
<td>International Cultures and Structures 1*</td>
<td>International Cultures and Structures 2*</td>
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<tr>
<td>Elective</td>
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<td><strong>TOTAL CREDITS</strong></td>
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### SOPHOMORE YEAR

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<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CH 301 Organic Chemistry I</td>
<td>CH 302 Organic Chemistry II</td>
</tr>
<tr>
<td>CH 251 Intermediate Lab I</td>
<td>CH 232 Analytical Chemistry</td>
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<tr>
<td>PY 151/171 Physics I</td>
<td>CH 252 Intermediate Lab II</td>
</tr>
<tr>
<td>IN 250 U.S. Cultural Studies</td>
<td>CH 253 Intermediate Lab III</td>
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<tr>
<td>Historical Studies (A&amp;S requirement)*</td>
<td>CH 254 Introduction to Research</td>
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<tr>
<td>Elective</td>
<td>CH 255 U.S. Structural Studies</td>
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<tr>
<td></td>
<td>CH 256 U.S. Structural Studies</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>CH 254 Introduction to Research</td>
<td>CH 350 Global Studies</td>
</tr>
<tr>
<td>CH 303 Physical Chemistry I</td>
<td>CH 392 Undergraduate Research</td>
</tr>
<tr>
<td>CH 351 Advanced Lab I</td>
<td>CH 353 Advanced Lab III</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>CH 304 Physical Chemistry II</td>
</tr>
<tr>
<td>Literature (A&amp;S requirement)*</td>
<td>Electives</td>
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### SENIOR YEAR

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CH 331 Biochemistry</td>
<td>CH 482 Chemistry Senior Seminar</td>
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<tr>
<td>CH 391 Undergraduate Research</td>
<td>CH 406 Advanced Inorganic Chemistry</td>
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<tr>
<td>CH 420 Instrumental Analysis</td>
<td>Electives</td>
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<tr>
<td>CH 352 Advanced Lab II</td>
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<td>Electives</td>
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Tagged course requirements (*) will be offered under a variety of departmental prefixes. Certain IN250 and/or IN350 courses may simultaneously fulfill Historical Studies and Literature requirements for A&S students if they are designated as meeting these requirements. International Cultures and Structures courses may be met by studying a foreign language as well as via other courses that are tagged as meeting the university requirements.

Students are encouraged to select upper-division Chemistry or Tabor School of Business courses for senior year electives. CH 304, CH 406, CH420, CH 351, CH 352, CH 353 are required for an ACS certified degree.

§ Students who enter Millikin with a strong background in chemistry can receive proficiency credit in CH 121 by
  - Scoring 3, 4 or 5 on the Advanced Placement Chemistry exam.
  - Passing the department’s proficiency exam.
  - Placing into CH 224 on entering Millikin and earning a grade of C or better in that course.