The Molecular and Cellular Biology major provides students with a solid preparation in molecular biology, molecular genetics, microbiology, cellular biology, biochemistry, physiology, and structural biology. Students will also acquire a strong background in chemistry, math and physical sciences. After completion of the core curriculum in MCB, students may complete the required advanced course work by taking a variety of MCB courses or by selecting a more focused group of courses in any of the following areas: biochemistry, cells and tissues, developmental biology, infection and immunity, microbiology, genetics, neurobiology and physiology. The MCB Advising Program (MAP) staff is available to help students plan their combination of advanced courses.

For students interested in adding licensure to the BSLAS in Molecular & Cellular Biology, please visit the Biology Teaching page: http://mcb.illinois.edu/undergrad/advising/teaching/

**Undergraduate degree programs in Molecular & Cellular Biology**

Biochemistry, BS (http://catalog.illinois.edu/undergraduate/las/biochemistry-bs)

Molecular & Cellular Biology, BSLAS (p. 1)

Molecular & Cellular Biology Honors Concentration, BSLAS (http://catalog.illinois.edu/undergraduate/las/molecular-cellular-biology-bslas/honors)

**for the degree of Bachelor of Science in Liberal Arts and Sciences Major in Molecular & Cellular Biology**

Certain advanced courses may be taken prior to completion of the MCB 250-MCB 253, MCB 354 sequence with permission of an academic advisor. A minimum of 15 hours of 300- or 400-level courses in MCB from the approved list is required.

In addition, undergraduate research (MCB 290, or departmental equivalent) is strongly recommended for students planning to go to graduate school. No more than 10 hours of MCB 290, or departmental equivalent credit may be counted towards the 120 hours required for a degree in MCB.

Students earning a degree in Molecular and Cellular Biology may not also earn a second degree in the Specialized Curriculum in Biochemistry.

Students earning a degree in Molecular and Cellular Biology may not double major in Integrative Biology.

**Molecular & Cellular Biology, BSLAS**

for the degree of Bachelor of Science in Liberal Arts and Sciences Major in Molecular & Cellular Biology

**School website:** https://mcb.illinois.edu/undergrad/

**School faculty:** School Faculty (https://mcb.illinois.edu/people)

**Advising:** MCB advising (https://mcb.illinois.edu/undergrad/advising)

**Overview of college admissions & requirements:** Liberal Arts & Sciences (http://catalog.illinois.edu/schools/las/academic-units)

**College website:** https://las.illinois.edu/

**Email:** undergrad@mcb.illinois.edu

The Molecular and Cellular Biology major is strongly recommended for students planning to go to graduate school. Undergraduate research (MCB 290, or departmental equivalent) is strongly recommended for students planning to go to graduate school. Students earning a degree in Molecular and Cellular Biology may not also earn a second degree in the Specialized Curriculum in Biochemistry.

Students earning a degree in Molecular and Cellular Biology may not double major in Integrative Biology.

**Information listed in this catalog is current as of 06/2020**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 233</td>
<td>Elementary Organic Chem Lab I</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one group of courses:
- PHYS 101  College Physics: Mech & Heat
- PHYS 102  College Physics: E&M & Modern

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211</td>
<td>University Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 212</td>
<td>University Physics: Elec &amp; Mag</td>
<td></td>
</tr>
<tr>
<td>PHYS 213</td>
<td>University Physics: Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 214</td>
<td>University Physics: Quantum Physics</td>
<td></td>
</tr>
</tbody>
</table>

At least four additional courses at the 300- to 400-level from the Approved List of Advanced Courses for MCB Majors are also required, including one lab course. (http://mcb.illinois.edu/undergrad/courses/advanced)