MOLECULAR & CELLULAR BIOLOGY, BSLAS

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

department page: https://mcb.illinois.edu/undergrad/
department website: School Faculty (https://mcb.illinois.edu/people)
overview of college admissions & requirements: Liberal Arts & Sciences (http://catalog.illinois.edu/las)
college website: https://las.illinois.edu/
email: undergrad@mcb.illinois.edu

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.

Distinction

Students in MCB can qualify for Distinction via one of the following:

To be eligible for graduation with Distinction a student must:

Complete 3 semesters of MCB 290 for 2 credit hours or more each semester. Maintain a minimum cumulative GPA of 3.25 at the end of penultimate semester. Give at least one poster presentation at the Undergraduate Research symposium or other approved venue. Obtain a letter of support from their Principal Investigator. Submit a written thesis that is approved by the Distinction Committee. Distinction for Excellence in Academics:

To be eligible for graduation with Academic Distinction a student must:

Maintain a major GPA of 3.90 or higher in the MCB major (biology, chemistry, physics and math courses for the MCB major) at the end of their penultimate semester.

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General education: Students must complete the Campus General Education requirements including the campus general education language requirement.

Minimum required major and supporting course work: 67-71 hours, including 21 hours of 300- or 400-level courses; 12 hours of 300- and 400-level courses in the major must be taken on this campus. Minimum hours required for graduation: 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 215</td>
<td>Biostatistics</td>
<td></td>
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Select one group of courses: 8-10

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| CHEM 102 | General Chemistry I  
& CHEM 101 | and General Chemistry Lab I  
& CHEM 102 | and General Chemistry II  
& CHEM 103 | and General Chemistry Lab II |
| CHEM 202 | Accelerated Chemistry I  
& CHEM 201 | and Accelerated Chemistry Lab I  
& CHEM 202 | and Accelerated Chemistry II  
& CHEM 203 | and Accelerated Chemistry Lab II |
| CHEM 232 | Elementary Organic Chemistry I             | 4     |
| CHEM 233 | Elementary Organic Chem Lab I              | 2     |

Select one group of courses: 10-12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| PHYS 101 | College Physics: Mech & Heat  
& PHYS 102 | and College Physics: E&M & Modern |
| PHYS 211 | University Physics: Mechanics  
& PHYS 212 | and University Physics: Elec & Mag  
& PHYS 213 | and Univ Physics: Thermal Physics  
& PHYS 214 | and Univ Physics: Quantum Physics |
| IB 150  | Organismal & Evolutionary Biol             | 4     |
| MCB 150 | Molec & Cellular Basis of Life             | 4     |
| MCB 250 | Molecular Genetics                         | 3     |
| MCB 251 | Exp Techniqs in Molecular Biol             | 2     |
| MCB 252 | Cells, Tissues & Development               | 3     |
| MCB 253 | Exp Techniqs in Cellular Biol              | 2     |
| MCB 354 | Biochem & Phys Basis of Life               | 3     |

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://mbc.illinois.edu/undergrad/courses/advanced) 15-16

Information listed in this catalog is current as of 04/2019