Biotechnology

Department Information

- **Department Web Site:**
  www.ndsu.edu/agriculture/academics/academic-units/microbiological-sciences (http://www.ndsu.edu/agriculture/academics/academic-units/microbiological-sciences/)
- **Credential Offered:**
  B.S.; Minor
- **Sample Program Guide:**
  catalog.ndsu.edu/programs-study/undergraduate/biotechnology/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/biotechnology/#planofstudytext)

Minor Requirements

**Minor: Biotechnology**

**Required Credits: 20**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 460</td>
<td>Foundations of Biochemistry and Molecular Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 461</td>
<td>Foundations of Biochemistry and Molecular Biology II</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 315 &amp; 315L</td>
<td>Genetics and Genetics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Biotechnology Technique Electives: Select 4 credits from the following:</td>
<td>4</td>
</tr>
<tr>
<td>BIOC 473</td>
<td>Methods of Biochemical Research</td>
<td></td>
</tr>
<tr>
<td>BIOC 474</td>
<td>Methods of Recombinant DNA Technology</td>
<td></td>
</tr>
<tr>
<td>MICR 445</td>
<td>Animal Cell Culture Techniques</td>
<td></td>
</tr>
<tr>
<td>MICR 471</td>
<td>Immunology and Serology Laboratory</td>
<td></td>
</tr>
<tr>
<td>PLSC 484</td>
<td>Plant Tissue Culture and Biotechnology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Specialized Electives: Select 6 credits from the following:</td>
<td>6</td>
</tr>
<tr>
<td>ANSC 314</td>
<td>Animal Biotechnology</td>
<td></td>
</tr>
<tr>
<td>ANSC 357</td>
<td>Animal Genetics</td>
<td></td>
</tr>
<tr>
<td>MICR 455</td>
<td>Microbial Biotechnology</td>
<td></td>
</tr>
<tr>
<td>MICR 470</td>
<td>Basic Immunology</td>
<td></td>
</tr>
<tr>
<td>MICR 480</td>
<td>Microbial Physiology</td>
<td></td>
</tr>
<tr>
<td>MICR 482</td>
<td>Microbial Genetics</td>
<td></td>
</tr>
<tr>
<td>PLSC 380</td>
<td>Principles of Plant Physiology</td>
<td></td>
</tr>
<tr>
<td>PLSC 431</td>
<td>Intermediate Genetics</td>
<td></td>
</tr>
<tr>
<td>BIOL 370</td>
<td>Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Animal Physiology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 20

**Minor Requirements and Notes**

- A minimum of 8 credits must be taken at NDSU.