# Applied Biotechnology, M.S.

## Requirements

### Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements ([http://guide.wisc.edu/graduate/#policiesandrequirementstext](http://guide.wisc.edu/graduate/#policiesandrequirementstext)), in addition to the program requirements listed below.

### Major Requirements

#### Mode of Instruction

<table>
<thead>
<tr>
<th>Mode</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</tbody>
</table>

- **Accelerated**: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.
- **Evening/Weekend**: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.
- **Face-to-Face**: Courses typically meet during weekdays on the UW-Madison Campus.
- **Hybrid**: These programs combine face-to-face and online learning formats. Contact the program for more specific information.
- **Online**: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### Curricular Requirements

#### Requirements Detail

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>31 credits</td>
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<tr>
<td>Minimum Residence Credit</td>
<td>31 credits</td>
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<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>At least 50% of credits applied toward the graduate degree credit requirement must be completed in graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (<a href="http://registrar.wisc.edu/course-guide/">http://registrar.wisc.edu/course-guide/</a>).</td>
</tr>
</tbody>
</table>

- **Overall**: 3.00 GPA required.

- **Graduate GPA Requirement**: The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.

#### Assessments and Examinations

- **Language**: n/a

### Course Requirements

- **The following core courses are required:**
  - ABT 700: Principles of Biotechnology (3 credits)
  - ABT 705: Ethics, Safety, and Regulatory Environments in Biotechnology (3 credits)
  - ABT 710: Professional and Technical Communication in Biotechnology (3 credits)
  - ABT 715: Techniques in Biotechnology (3 credits)
  - ABT 720: Experimental Design and Analysis in Biotechnology (3 credits)
  - ABT 725: Leadership in Organizations (3 credits)
  - ABT 789: Pre-Capstone (1 credit)
  - ABT 790: Capstone (3 credits)

- **Select a minimum of three classes (9 credits) from one or more of the following elective areas:**
  - **Area 1: Quality Control and Validation**
    - ABT 735: Quality Control and Validation
  - **Area 2: Business and Management**
    - ABT 740: Regulatory Practice and Compliance
    - ABT 745: Industrial Applications in Regulatory Affairs
  - **Area 3: Research and Development**
    - ABT 750: Biotechnology Marketing and Entrepreneurship
    - ABT 755: Global Operations and Supply Chain Management
    - ABT 760: Quality and Project Management
    - ABT 765: Assessing Innovation in Biotechnology
    - ABT 770: Product Development
    - ABT 775: Tools for Data Analysis

**Total Credits**: 31 credits