This worksheet is designed to help you plan and track your progress toward your degree. It lists all of the graduation requirements in the recommended sequence. For full course descriptions, please refer to the current undergraduate Catalog.

### Required Lower-Level Courses for Transfer into Major (32 credits)

- General microbiology with lab (4)
- General genetics with lab (4)
- Biotechnology applications and techniques with lab (7)
- BIOL 103 (4) or other biological/physical science GenEd course with related lab. Related science coursework requirement for major
- NSCI 100 (3) or other 3-credit biological/physical science GenEd course. Related science coursework requirement for major
- Related science coursework (10) May include any coursework related to biotechnology, including biotechnology, biochemistry, cell biology, chemistry, genetics, immunology, microbiology, molecular biology, physics, and virology courses

### First Courses (7 credits)

- Take within first 18 credits.
- Take placement exams before registering for writing and math courses.
- LIBS 150 (1) GenEd course
- WRTG 101 (3) GenEd course
- MATH 106 or higher-level math course (3) GenEd course

### General Education Courses (27 credits)

- IFSM 201 or CMST 301 (3) First computing GenEd course
- CMIS 111 (3) or other second computing GenEd course
- HIST 125 (3) or any ARTH or HIST for arts/humanities GenEd course
- HUMN 100 (3) or other arts/humanities GenEd course from second discipline
- ECON 103 (3) or other behavioral/social science GenEd course
- BEHS 103 (3) or other behavioral/social science GenEd course from a second discipline
- WRTG 293 (3) or other 3-credit WRTG course except 288, 388, 486A, 486B. COMM 390 and 492, ENGL 102 and JOUR 201 apply
- COMM 202 (3) or other communication, writing, or speech GenEd course
- WRTG 393 (3) or other upper-level advanced writing GenEd course

---

**Required courses for major**
### Degree Planning Worksheet (p. 2)
#### BTPS in Biotechnology

**SEQUENCE**

36 total credits for major, of which at least half must be upper-level and at least half taken through UMUC.

<table>
<thead>
<tr>
<th>COURSE TAKEN</th>
<th>SEMESTER TAKEN OR CREDIT REMAINING</th>
</tr>
</thead>
</table>

#### Major Courses (18 credits)

- * BIOL 325  Inquiries in Biological Science (3)
- * BIOL 350 Molecular and Cellular Biology (3)
- * BIOL 357 Bioinformatics (3)
- * NSCI 301 Laboratory Management and Safety (3)
- * BIOL 486A/B Workplace Learning in Biology (6) Or other related Workplace Learning

#### Capstone for Major (3 credits) To be taken in last 15 credits

- * BIOL 495 Current Trends and Applications in the Life Sciences (3)

#### Minor or Electives (15 credits, at least 9 credits upper level for minor)

See requirements of individual minor.

#### Additional Electives (18 credits)

Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.

Recommended electives: BIOL 362, BIOL 422, BMGT 317, FINC 331, SPCH 482

**TOTAL: 120 CREDITS**

---

**Checklist for Fulfillment of Degree Requirements**

- 30 credits at UMUC, including at least half of the major and minor and 15 upper level credits.
- 45 upper-level credits, including half the credit for the major and for the minor.
- All required courses and minimum number of credits for major and minor.
- Prerequisites for major and minor courses, if needed.
- All General Education Requirements.
- Grade of C or better in all courses for the major and minor.
- Overall GPA of at least 2.0.
- At least half the credit for the major earned through graded coursework.
- Total 120 credits.

**Notes:**

- Required courses for major

---

**BIOT: Biotechnology, p. 2**