# B.S. in Microbiology — Degree Requirement Check Sheet

for students who matriculated summer 2020 through spring 2023

**Student Name/ID:** _____________________________________  **Purpose:** ______________________________  **Date:** ___________________

**Credit Hours:***
- Currently enrolled in: ______  semester: ______________
- Currently enrolled in: ______  semester: ______________

**Case Requirements:**
- □ Public Oral Communication (COLL-P 155)
- □ English Composition
- □ Mathematical Modeling (fulfilled by major)
- □ Critical Approaches to the Arts and Sciences—must be done at IUB
- □ CASE A&H–2 courses; will count 2 GenEd A&H here; need: ______
- □ CASE S&H–2 courses; will count 2 GenEd S&H here; need: ______
- □ CASE N&M–4 courses; fulfilled by major
- □ Intensive Writing (IW)—must be done at IUB inside the College
- □ Foreign Language (FL)—3rd semester proficiency
- □ CASE Culture Studies: Diversity in U.S. course—must be done at IUB

**Microbiology Major Requirements:**

- Major requirements must be completed with a C- or better.
- *Chemistry, physics, statistics, and math Addenda Requirements must be completed with a C- or better, but they do not count toward major GPA or major hours.*

- □ 35 major hours: _____ needed
- □ 18 BIOL hours at 300-499 level: _____ needed
- □ 18 BIOL hours at IUB: _____ needed
- □ Major GPA ≥ 2.000. Major GPA: ______

**Biology**
- □ BIOL-L 112  □ BIOL-L 211
- □ BIOL-M 250 [do NOT take BIOL-M 380]
- □ BIOL-M 315 OR BIOL-M 316 [ASURE students: approved topic of BIOL-X 150 or BIOT-X 150]

- See lists on reverse and fill in courses below:

- □ 3 Advanced Lectures:
  - □ __________________________________
  - □ __________________________________
  - □ __________________________________

- □ 2 Advanced Labs:
  - □ __________________________________
  - □ __________________________________

- □ 2 Advanced Elective Lectures:
  - □ __________________________________
  - □ __________________________________

- □ 1 Advanced Elective Lab:
  - □ __________________________________

**Chemistry**
- □ CHEM-C 117 and CHEM-C 127
- □ CHEM-C 341
- □ CHEM-C 342
- □ CHEM-C 343

**Physics**
- □ PHYS-P 201
- □ PHYS-P 202

**Statistics**
- □ EAS-E 314, LAMP-L 316, MATH-M 365, PSY-K 300, PSY-K 310, SOC-S 371, SPEA-K 300, SPH-Q 381, STAT-S 300, OR STAT-S 303

**Math**
- □ MATH-M 211 OR MATH-M 119 and MATH-M 120 OR
- □ MATH-V 119 and MATH-M 120

---

**IUB General Education Requirements:**

- Foundations:
  - □ English Composition (minimum grade of C required)
  - □ Mathematical Modeling (fulfilled by major)

- Breadth of Inquiry:
  - □ Arts & Humanities (A&H)–6 credits; need: ______
  - □ Social & Historical (S&H)–6 credits; need: ______
  - □ Natural & Mathematical (N&M)–(fulfilled by major)

- World Languages & Cultures:
  - □ World Language–4th semester proficiency
  - □ World Cultures–6 credits
  - □ Approved international experience

- GenEd residency complete:  Yes  No  If no, you need: ______

**Total Hours Requirements:**

<table>
<thead>
<tr>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Hours</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Total College Hours</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>300-499 level Hours</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>IUB COLL Res. after 60 Hours</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

- IPRP (in-progress repeated course):  Yes  No  If yes, credit hours showing as needed in your AAR may not be accurate. Ask an advisor!

- College GPA of at least 2.000 is required. ______
## Advanced Lecture list
Complete **three (3)** Advanced Lectures:
- BIOL-L 321 *Human Immunology* (3 cr., spring)
- BIOL-L 472 *Microbiomes: Host and Environmental Health* (3 cr., spring)
- BIOL-M 350 *Microbial Physiology and Biochemistry* (3 cr., spring)
- BIOL-M 430 *Virology Lecture* (3 cr., spring)
- BIOL-M 440 *Medical Microbiology Lecture* (3 cr., fall)
- BIOL-M 460 *Microbial Evolution* (3 cr., rarely offered)
- BIOL-M 480 *Microbial and Molecular Genetics* (3 cr., fall)

## Advanced Lab list
Complete **two (2)** Advanced Labs:
- BIOL-M 360 *Microbial Physiology Lab* (3 cr., spring, sometimes fall)
- BIOL-M 435 *Viral Tissue Culture Lab* (3 cr., spring, P or C: BIOL-M 430)
- BIOL-M 445 *Medical Microbiology Lab* (3 cr., fall, P or C: BIOL-M 440)
- BIOL-M 465 *Environmental Microbiology Lab* (3 cr., variable)
- BIOL-M 485 *Microbial and Molecular Genetics Lab* (3 cr., variable)
- ASURE students only: BIOL-X 325 *Biology Research Lab 2* (3 cr., approval of D.U.S. required)
- ASURE students only: BIOT-X 325 *Biotechnology Research Lab 2* (4 cr.)

## Advanced Elective Lecture list
Complete **two (2)** Advanced Elective Lectures:
- Additional course(s) from Advanced Lecture list above
- BIOL-L 312 *Cell Biology* (3 cr., fall and spring)
- BIOL-M 375 *Human Parasitology* (4 cr., spring) **OR**
  MSCI-M 375 *Parasitology* (4 cr., spring)
- BIOL-M 416 *Biology of AIDS* (3 cr., rarely offered)
- BIOT-T 310 *Biotechnology Lecture* (3 cr., fall)
- BIOT-T 322 *Biotechnology Writing & Communication* (3 cr., fall and spring)
- CHEM-C 483 *Biological Chemistry* (3 cr., fall and spring) **OR**
  CHEM-C 484 *Biomolecules and Catabolism* (3 cr., fall and spring)

## Advanced Elective Lab list
Complete **one (1)** Advanced Elective Lab:
- Additional course from Advanced Lab list above
- BIOL-M 375 *Human Parasitology* (4 cr., spring) **OR**
  MSCI-M 375 *Parasitology* (4 cr., spring)
- BIOT-T 315 *Biotechnology Lab* (3 cr., fall and spring)

★ Microbiology courses are generally offered only in specific semesters (either fall or spring), and they have prerequisites. Always check the Bulletin and the Schedule of Classes for course information before taking a course. Questions? Email your advisors at bioadv@iu.edu.

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total credit hours</strong>:</td>
<td><strong>Total credit hours</strong>:</td>
<td><strong>Total credit hours</strong>:</td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>