# B.S. IN MICROBIOLOGY – DEGREE REQUIREMENT CHECK SHEET

for students who matriculated summer 2023 through spring 2024

<table>
<thead>
<tr>
<th>Student Name/ID: _____________________________________</th>
<th>Purpose: ______________________________</th>
<th>Date: ___________________</th>
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**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 major hours at 300-499 level: _____ needed
- 18 major hours at IUB: _____ needed
- Major GPA ≥ 2.000. Major GPA: ______

**BIOLOGY**

- BIOL-L 112
- BIOL-L 211
- BIOL-M 250
- BIOL-M 315 OR BIOL-M 316 [ASURE students: BIOT-X 150, or approved topic of BIOL-X 150]

**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

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**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
  - OR World Cultures–6 credits
  - OR Approved international experience

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

**TOTAL HOURS REQUIREMENTS:**

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<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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<tbody>
<tr>
<td>Major Hours</td>
<td>35</td>
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</tr>
<tr>
<td>Total College Hours</td>
<td>100</td>
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<tr>
<td>Total Credit Hours</td>
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<tr>
<td>300-499 level Hours</td>
<td>36</td>
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<tr>
<td>IUB COLL Res. after 60 Hours</td>
<td>36</td>
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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 three (3) Advanced Labs:
- BIOL-L 323 Molecular Biology Lab (3 cr., fall and spring)
- BIOL-M 360 Microbial Physiology Lab (3 cr., spring, sometimes fall)
- BIOL-M 375 Human Parasitology (4 cr., spring) OR
  MSCI-M 375 Parasitology (4 cr., spring)
- 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)
- BIOT-T 315 Biotechnology Lab (3 cr., fall and spring)
- BIOT-T 425 Lab in Macromolecular Prod., Purification, & Character. (3 cr., fall)
- 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)

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.