**B.A. IN MICROBIOLOGY — DEGREE REQUIREMENT CHECK SHEET** for students who matriculated summer 2020 through spring 2021

**Student Name/ID:** __________________________  **Purpose:** __________________________  **Date:** ___________________  

<table>
<thead>
<tr>
<th>Credit hours:</th>
</tr>
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<tbody>
<tr>
<td>Currently enrolled in: ______ semester: ______________</td>
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<tr>
<td>Currently enrolled in: ______ semester: ______________</td>
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**AFTER SUCCESSFUL COMPLETION OF CURRENT ENROLLMENT, YOU NEED THE FOLLOWING:**

### IUB GENERAL EDUCATION REQUIREMENTS:

- **Foundations:**
  - English Composition (minimum grade of C required)
  - Mathematical Modeling (see note under major requirements)
- **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:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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<tbody>
<tr>
<td>Major Hours</td>
<td>30</td>
<td></td>
<td></td>
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<tr>
<td>College Hours outside the major</td>
<td>58</td>
<td></td>
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<tr>
<td>Total College Hours</td>
<td>100</td>
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<tr>
<td>Total Credit Hours</td>
<td>120</td>
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<tr>
<td>300-499 level Hours</td>
<td>42</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. ______**

### CASE REQUIREMENTS:

- English Composition
- Mathematical Modeling (see note under major requirements)
- Public Oral Communication (COLL-P 155)
- Critical Approaches to the Arts and Sciences—must be done at IUB
- CASE A&H—4 courses (will count 2 GenEd A&H here; 2 must be inside College); need: ______
- CASE S&H—4 courses (will count 2 GenEd S&H here; 2 must be inside College); need: ______
- CASE N&M—4 courses; fulfilled by major
- Intensive Writing (IW)—must be done at IUB inside the College
- Foreign Language (FL)—4th semester proficiency
- CASE Culture Studies: 1 course Diversity in U.S.—must be done at IUB
- CASE Culture Studies: 1 course Global Civilizations and Cultures—must be done at IUB

### MICROBIOLOGY MAJOR REQUIREMENTS:

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

- 30 major hours: _____ needed
- 18 major hours at IUB: _____ needed
- 18 major hours at 300-499 level: _____ needed
- Major GPA ≥ 2.000: ______

#### BIOLOGY

- BIOL-L 112
- BIOL-M 250
- BIOL-M 315 OR BIOL-M 316
  - [ASURE students: BIOL-X 150 or BIOT-X 150]

*See lists on reverse and fill in courses below:
- Advanced Lecture: _________________________
- Advanced Lab:
- 4 Advanced Elective Lectures:
  - _________________________
  - _________________________
  - _________________________
  - _________________________
- Advanced Elective Lab: _________________________

**★ CHEMISTRY**

- CHEM-C 117 lecture (see note below)
- CHEM-C 341 OR CHEM-R 340

**★ PHYSICS**

- PHYS-P 201
- PHYS-P 202

**★ QUANTITATIVE METHODS ★**

- One course: EAS-E 314, LAMP-L 316, MATH-M 118, M 119, M 211, M 365, V 118, V 119, PSY-K 300, PSY-K 310, SOC-S 371, SPEA-K 300, STAT-S 300, OR STAT-S 303

* MATH-M 118, MATH-M 119, MATH-V 118, MATH-V 119, and MATH-M 211 also fulfill GenEd and CASE Mathematical Modeling; the other choices do not.

**Note:** CHEM-C 127 lab is NOT required for this degree, but it is recommended for pre-health students.
**Advanced Lecture list**

Complete one (1) Advanced Lecture:
- 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* (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 one (1) Advanced Lab:
- BIOL-M 360 *Microbial Physiology Lab* (3 cr., spring, sometimes fall)
- BIOL-M 435 *Viral Tissue Culture Lab* (3 cr., spring)
- BIOL-M 445 *Medical Microbiology: Lab* (3 cr., fall)
- BIOL-M 465 *Environmental Microbiology Lab* (3 cr., variable)
- BIOL-M 485 *Microbial and Molecular Genetics Lab* (3 cr., variable)
- BIOL-X 325 *ASURE Biology Research Lab 2 – approved topics only; see advisor* (3 cr.)
- BIOT-X 325 *Biotechnology Research Lab 2* (4 cr.)

**Advanced Elective Lecture list**

Complete four (4) 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., spring)
- 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 during specific semesters, 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.