### B.A. IN MICROBIOLOGY — DEGREE REQUIREMENT CHECK SHEET

For students who matriculated summer 2019 through spring 2020

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

<table>
<thead>
<tr>
<th>Credit hours:</th>
</tr>
</thead>
<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
- 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: ______

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### TOTAL HOURS REQUIREMENTS:

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<tr>
<th></th>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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<tbody>
<tr>
<td>Major Hours (A)</td>
<td>30–42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Elective Hours (B)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective Outside Hours (C)*</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Total College Hours (A+B)</td>
<td>100</td>
<td></td>
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<tr>
<td>Total Credit Hours (A+B+C)</td>
<td>120</td>
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<tr>
<td>300/400-level Hours</td>
<td>42</td>
<td></td>
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<tr>
<td>IUB COLL. Res. after 60 credits</td>
<td>36</td>
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* Maximum of 20 Elective Outside Hours (C) allowed

IPRP: Yes  No  If yes, needed credit hours may not be accurate.

Overall College GPA of 2.000 or higher is required.

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### 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; 2 must be inside College); need: ______
- CASE S&H—4 courses (will count 2 GenEd; 2 must be inside College); need: ______
- CASE N&M—fulfilled by major
- Intensive Writing (IW)—must be done at IUB inside the College
- Foreign Language (FL)—4th semester proficiency
- CASE Culture Studies: 2 courses: 1 DUS and 1 GCC—both must be done at IUB

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### MICROBIOLOGY MAJOR REQUIREMENTS:

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

- 30 major hours: _____ needed (max. 42 hours)
- 18 major hours at 300/400 level: _____ needed

**BIOLOGY**

- BIOL-L 112
- BIOL-L 211
- BIOL-M 250 (fall/spring/summer)
- BIOL-M 255 or M 315 [ASURE: BIOL-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**

- MATH-M 211 OR M 119 OR V 119
- LAMP-L 316, MATH-M 365, PSY-K 300/310, SOC-S 371, SPEA-K 300, OR STAT-S 300/303

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 Microbial Ecology (3 cr., spring)
- BIOL-M 350 Microbial Physiology & Biochemistry (3 cr., spring)
- BIOL-M 430 Virology (3 cr., spring)
- BIOL-M 440 Medical Microbiology (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)
- ASURE students only: BIOL-X 325 Biology Research Lab 2 (3 cr.)
- ASURE students only: 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.