**B.S. IN MICROBIOLOGY — DEGREE REQUIREMENT CHECK SHEET** for students who matriculated summer 2019 through spring 2020

<table>
<thead>
<tr>
<th>Student Name/ID: _____________________________________</th>
<th>Purpose: ______________________________</th>
<th>Date: ___________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit hours:</td>
<td>Currently enrolled in: ______ semester: ______________</td>
<td></td>
</tr>
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**AFTER SUCCESSFUL COMPLETION OF CURRENT ENROLLMENT, YOU NEED THE FOLLOWING:**

**IUB GENERAL EDUCATION REQUIREMENTS:**
- **Foundations:**
  - English Composition
  - 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)–fully 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>Major Hours (A)</th>
<th>Required</th>
<th>Complete</th>
<th>Needed</th>
</tr>
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<tbody>
<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>36</td>
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<tr>
<td>IUB COLL. Res. after 60 credits</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.

**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; need: ______
- CASE S&H–2 courses; will count 2 GenEd; need: ______
- CASE N&M–fully fulfilled by major
- Intensive Writing (IW)–must be done at IUB inside the College
- Foreign Language (FL)–3rd semester proficiency

**MICROBIOLOGY MAJOR REQUIREMENTS:**
Major requirements must be completed with a C- or better. ★ Chemistry, physics, statistics, and math 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 300/400 level: _____ needed
- 18 BIOL hours at IUB: _____ needed
- Major GPA ≥ 2.000. Major GPA: ______

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

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

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* Maximum of 20 Elective Outside Hours (C) allowed
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Overall College GPA of 2.000 or higher is required.
**Advanced Lecture list**
Complete **three (3)** Advanced Lectures:
- 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 **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)
- 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.)

**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., spring)
- BIOT-T 310 *Biototechnology Lecture* (3 cr., fall)
- BIOT-T 322 *Biototechnology 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 *Biototechnology Lab* (3 cr., fall and spring)
- ASURE students only: BIOT-X 325 *Biototechnology Research Lab 2* (4 cr.)

★ 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.

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