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

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

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:

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

AFTER SUCCESSFUL COMPLETION OF CURRENT ENROLLMENT, YOU NEED THE FOLLOWING:

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 BIOL 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: 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, 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
**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)
- 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., 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., 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.

<table>
<thead>
<tr>
<th></th>
<th>Fall ________</th>
<th>Spring ________</th>
<th>Summer ________</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-L 321 Human Immunology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-L 472 Microbiomes: Host and Environmental Health</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 350 Microbial Physiology and Biochemistry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 430 Virology Lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 440 Medical Microbiology Lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 460 Microbial Evolution</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 480 Microbial and Molecular Genetics</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Fall ________</th>
<th>Spring ________</th>
<th>Summer ________</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-M 360 Microbial Physiology Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 435 Viral Tissue Culture Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 445 Medical Microbiology Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 465 Environmental Microbiology Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 485 Microbial and Molecular Genetics Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASURE students only: BIOL-X 325 Biology Research Lab 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASURE students only: BIOT-X 325 Biotechnology Research Lab 2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Fall ________</th>
<th>Spring ________</th>
<th>Summer ________</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-M 375 Human Parasitology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI-M 375 Parasitology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL-M 416 Biology of AIDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOT-T 310 Biotechnology Lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOT-T 322 Biotechnology Writing &amp; Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM-C 483 Biological Chemistry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM-C 484 Biomolecules and Catabolism</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Fall ________</th>
<th>Spring ________</th>
<th>Summer ________</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-M 375 Human Parasitology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI-M 375 Parasitology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOT-T 315 Biotechnology Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fall ________ | Spring ________ | Summer ________ |