B.A. IN MICROBIOLOGY — DEGREE REQUIREMENT CHECK SHEET for students who matriculated summer 2020 through spring 2023

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

Credit hours:
Currently enrolled in: _____ semester: ______________
Currently enrolled in: _____ semester: ______________

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:

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<th>Required</th>
<th>Complete</th>
<th>Needed</th>
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<tr>
<td>Major Hours</td>
<td>30</td>
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<tr>
<td>College Hours outside the major</td>
<td>58</td>
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<td>Total College Hours</td>
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<td>Total Credit Hours</td>
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<td>300-499 level Hours</td>
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<td>IUB COLL Res. after 60 Hours</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-L 211
☐ BIOL-M 250 OR BIOL-M 380
☐ BIOL-M 315 OR BIOL-M 316 [ASURE students: approved topic of 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: 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, 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)
- BIOL-X 325 ASURE Biology Research Lab 2 – approved topics only; see advisor (3 cr.)
- BIOT-X 325 Biotechnology Research Lab 2 (3 cr.)

**Advanced Elective Lecture list**

Complete four (4) Advanced Elective Lectures:
- Additional course(s) from Advanced Lecture list above
- BIOL-L 311 Genetics (3 cr., fall, spring, and summer)
- 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 W riting & 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 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.

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