

# B.A. MICROBIOLOGY

Use this check sheet with your Degree Progress Report (DPR).

To learn about requirements for admission to the major, please visit: <http://www.kuub.ku.edu/admission>

**KU CORE REQUIREMENTS** See <https://kucore.ku.edu/fulfilling-the-core> for approved KU Core courses and/or experiences.

- Goal 1. *Critical Thinking & Quantitative Literacy* Outcome 1 (Can be satisfied by degree reqs.) Outcome 2 (Can be satisfied by degree reqs.)
- Goal 2. *Communication* Outcome 1   (2 units of Outcome 1 satisfied by "First-year Writing" BA degree req of ENGL 101/equiv ACT/SAT/AP\* and "Critical Reading & Writing" BA degree req of ENGL 102/105/AP.)  
Outcome 2
- Goal 3. *Breadth of Knowledge* Arts & Humanities  Social Sciences  Natural Sciences (Can be satisfied by degree reqs.)
- Goal 4. *Culture & Diversity* Outcome 1  Outcome 2
- Goal 5. *Social Responsibility & Ethics*
- Goal 6. *Integration & Creativity* (Can be satisfied by degree reqs.)
- Second Language Proficiency/Third-level & Additional Foreign Language Course.  () Demonstrate equivalent of initial 4 semesters in a language other than English OR demonstrate equivalent of initial 3 semesters of study in one language AND the equivalent of the initial semester of study in another language.  
\* Students who place in ENGL 102/105 by examination must complete ENGL 102/105 and another course meeting Goal 2, Learning Outcome 1 of the KU Core.

**GENERAL SCIENCE REQUIREMENTS (39–43 h)**

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|--|--|
| BIOL 105 Biology Orientation Seminar (1) <input type="checkbox"/>      | CHEM 331 Organic Chemistry I Lab (2) <input type="checkbox"/>  |
| BIOL 150/151 Prin Molecular & Cell Biol (4) <input type="checkbox"/>   | MATH 115 & 116 Calculus I & II (6) <b>OR</b> MATH 121 Calculus I (5) <b>OR</b> <input type="checkbox"/> ( <input type="checkbox"/> ) |
| BIOL 350/360 Principles of Genetics (4) <input type="checkbox"/>       | MATH 125 Calculus I (4) <input type="checkbox"/>   |
| CHEM 130 Foundations of Chemistry I (5) <input type="checkbox"/>       | PHSX 114 & 115 College Physics I & II (8) <b>OR</b> <input type="checkbox"/> <input type="checkbox"/>                                |
| CHEM 135 Foundations of Chemistry II (5) <input type="checkbox"/>      | PHSX 211+216 & 212+236 General Physics I & II (9)  |
| CHEM 310 Fund Organic Chemistry (3) <b>OR</b> <input type="checkbox"/> |  |
| CHEM 330 Organic Chemistry I (3) <input type="checkbox"/>              |  |

**MICROBIOLOGY CORE REQUIREMENTS (9–10 h)**

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| BIOL 400/401 Fundamentals of Microbiology (3) <input type="checkbox"/> | BIOL 599 Sr Seminar: Current Prog Microbiology (1) (must be taken Sr yr) <input type="checkbox"/> |
| BIOL 402 Fund Microbiology Lab (2) <input type="checkbox"/>            | BIOL 600 Introductory Biochemistry, Lectures (3-4) <input type="checkbox"/>                       |

**MICROBIOLOGY ELECTIVES AND LABORATORY REQUIREMENTS (15 h)**

- 15 h of Microbiology courses, including 3 lecture-lab pairings, selected from the following:
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| BIOL 503 Immunology (3)  | BIOL 512 General Virology (3)              |
| BIOL 504 Immunology Laboratory (2)                                   | BIOL 513 Virology Laboratory (2)           |
| BIOL 506 Bacterial Infectious Diseases / Pathogenic Microbiology (3) | BIOL 518 Microbial Genetics (3)            |
| BIOL 507 Pathogenic Microbiology Lab (2)                             | BIOL 519 Microbial Genetics Laboratory (2) |

**ELECTIVE REQUIREMENTS (3 h): BIOL courses numbered 400 or higher, to be selected in consultation with a Microbiology advisor.**

- BIOL \_\_\_\_\_ ( \_\_ h)  BIOL \_\_\_\_\_ ( \_\_ h)

- **Completing the minimum General Science and major requirements** set forth above results in **63 overall h** and **36 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in Core Reqs or General Science Reqs) that are *unique* to that major. **63 h**  **36 Jr/Sr h**
- **At least 120 h** (of which **45 must be Jr/Sr h**—courses numbered 300 or above) **must be completed for graduation.** **120 h**  **45 Jr/Sr h**