

# B.A. BIOCHEMISTRY

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 (33–38 h)**

- |  |                          |   |   |
|--|--------------------------|---|---|
| BIOL 105 Biology Orientation Seminar (1) | <input type="checkbox"/> | CHEM 335 Organic Chemistry II (3)                                       | <input type="checkbox"/>                          |
| CHEM 170/130 Chemistry I (5)             | <input type="checkbox"/> | *MATH 115 & 116 Calculus I & II (6) OR MATH 121 & 122 Calc. I & II (10) | <input type="checkbox"/> <input type="checkbox"/> |
| CHEM 175/135 Chemistry II (5)            | <input type="checkbox"/> | OR MATH 125 & 126 Calculus I & II (8)                                   |   |
| CHEM 330 Organic Chemistry I (3)         | <input type="checkbox"/> | PHSX 211+216 & 212+236 General Physics I & II (9) OR                    | <input type="checkbox"/> <input type="checkbox"/> |
| CHEM 331 Organic Chemistry I Lab (2)     | <input type="checkbox"/> | PHSX 114 & 115 College Physics I & II (8)                               |   |

\* Students who plan to attend graduate school should enroll in MATH 121 and 122/MATH 125 and 126.

**BIOCHEMISTRY REQUIREMENTS (29 h)**

- |   |                          |   |                          |
|---|--------------------------|---|--------------------------|
| BIOL 150/151 Prin Molecular & Cell Biol (4) | <input type="checkbox"/> | BIOL 638 Biochemistry II (3)                                    | <input type="checkbox"/> |
| BIOL 152/153 Prin Organismal Biology (4)    | <input type="checkbox"/> | BIOL 639 Advanced Biochemistry Laboratory (2)                   | <input type="checkbox"/> |
| BIOL 350/360 Principles of Genetics (4)     | <input type="checkbox"/> | BIOL 672 Gene Expression (3)                                    | <input type="checkbox"/> |
| BIOL 636 Biochemistry I (3)                 | <input type="checkbox"/> | BIOL 599 Senior Seminar: Biochemistry (1) (must be taken Sr yr) | <input type="checkbox"/> |
| BIOL 637 Introductory Biochemistry Lab (2)  | <input type="checkbox"/> | CHEM 510 Biological Physical Chemistry (3)                      | <input type="checkbox"/> |

**BIOCHEMISTRY ELECTIVE REQUIREMENTS (6 h): BIOL courses numbered 400 or higher must be selected in consultation with a Biochemistry advisor. Some suggested courses are the following:**

- |                                      |  |                                       |
|--------------------------------------|--|---------------------------------------|
| BIOL 400/401 Fund Microbiology (3)   | BIOL 416 Cell Structure & Function (3) | BIOL 424 Independent Study (variable) |
| BIOL 408 Physiology of Organisms (3) | BIOL 417 Biology of Development (3)    | BIOL 646 Mammalian Physiology (4)     |

No more than 3 h of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

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

- **Completing the minimum General Science and major requirements** set forth above results in **68 overall h** and **35 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in KU Core Reqs or General Science Reqs) that are *unique* to that major. **68 h**  **35 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**