

B.A. BIOCHEMISTRY

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

To learn about requirements for admission to the major, please visit the online course catalog: <http://catalog.ku.edu/201314/schools/cas/departments/biol/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 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
- 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 (32–37 h)

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|--------------------------------------|--------------------------|--|--------------------------|--------------------------|
| CHEM 170/130 Chemistry I (5) | <input type="checkbox"/> | *MATH 115 & 116 Calculus I & II (6) OR | <input type="checkbox"/> | <input type="checkbox"/> |
| CHEM 175/135 Chemistry II (5) | <input type="checkbox"/> | MATH 121 & 122 Calculus I & II (10) | | |
| CHEM 330 Organic Chemistry I (3) | <input type="checkbox"/> | PHSX 211+216 & 212+236 Gen. 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) | | |
| CHEM 335 Organic Chemistry II (3) | <input type="checkbox"/> | | | |

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

BIOCHEMISTRY REQUIREMENTS (28 h)

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|---|--------------------------|---|--------------------------|
| 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 (3-4) | <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:

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|--------------------------------------|--|---------------------------------------|
| 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 **34 Jr/Sr h**. Double majors must complete ≥ 15 h in the major (i.e., not in KU Core Reqs or General Science Reqs) that are *unique* to that major. **68 h** **34 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**