

# B.S. BIOCHEMISTRY

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

To learn about requirements for admission to the major, please visit our online course catalog page: <http://www2.ku.edu/~distinction/cgi-bin/admission368>

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

Goal 1. Critical Thinking & Quantitative Literacy	Outcome 1 <input type="checkbox"/>	Outcome 2 (Can be satisfied by degree reqs.)
Goal 2. Communication	Outcome 1 <input type="checkbox"/> <input type="checkbox"/>	Outcome 2 <input type="checkbox"/>
Goal 3. Breadth of Knowledge	Arts & Humanities <input type="checkbox"/>	Social Sciences <input type="checkbox"/>
		Natural Sciences (Can be satisfied by degree reqs.)
Goal 4. Culture & Diversity	Outcome 1 <input type="checkbox"/>	Outcome 2 <input type="checkbox"/>
Goal 5. Social Responsibility & Ethics	<input type="checkbox"/>	
Goal 6. Integration & Creativity	<input type="checkbox"/>	

**BS GENERAL EDUCATION REQUIREMENTS** Focus on completing KU Core reqs first. Refer to your DPR and talk with a biology advisor.

**GENERAL SCIENCE REQUIREMENTS (38–39 h)**

CHEM 130/170 Chemistry I (5)	<input type="checkbox"/>	CHEM 336 Organic Chemistry II Lab (2)	<input type="checkbox"/>
CHEM 135/175 Chemistry II (5)	<input type="checkbox"/>	MATH 121 & 122 Calculus I & II (10)	<input type="checkbox"/> <input type="checkbox"/>
CHEM 330 Organic Chemistry I (3)	<input type="checkbox"/>	PHSX 211+216 & 212+236 Gen. Physics I & II (9) <b>OR</b>	<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"/>		

**BIOCHEMISTRY REQUIREMENTS (33 h)**

BIOL 150/151 Prin Molecular & Cell Biol (4)	<input type="checkbox"/>	BIOL 672 Gene Expression (3)	<input type="checkbox"/>
BIOL 152/153 Prin Organismal Biology (4)	<input type="checkbox"/>	BIOL 599 Senior Seminar: Biochemistry (1) (must be taken Sr yr)	<input type="checkbox"/>
BIOL 350/360 Principles of Genetics (3)	<input type="checkbox"/>	CHEM 620 Analytical Chemistry (3)	<input type="checkbox"/>
BIOL 636 Biochemistry I (3)	<input type="checkbox"/>	CHEM 621 Analytical Chemistry Laboratory (2)	<input type="checkbox"/>
BIOL 637 Introductory Biochemistry Lab (2)	<input type="checkbox"/>	CHEM 510 Biological Physical Chemistry (3) <b>OR</b>	<input type="checkbox"/>
BIOL 638 Biochemistry II (3)	<input type="checkbox"/>	CHEM 530 Physical Chemistry (3)	
BIOL 639 Advanced Biochemistry Lab (2)	<input type="checkbox"/>		

**BIOCHEMISTRY ELECTIVE REQUIREMENTS (12 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 424 Independent Study (variable)	BIOL 518 Microbial Genetics (3)
BIOL 408 Physiology of Organisms (3)	BIOL 430 Lab in Molecular Biology (3)	BIOL 688 Molecular Biology of Cancer (3)
BIOL 416/536 Cell Structure & Function (3)		

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) <input type="checkbox"/>	BIOL _____ ( __ h) <input type="checkbox"/>	BIOL _____ ( __ h) <input type="checkbox"/>
BIOL _____ ( __ h) <input type="checkbox"/>	BIOL _____ ( __ h) <input type="checkbox"/>	

- **Completing the minimum General Science and major requirements** set forth above results in **83 overall h** and **47 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in Core/Gen Ed Req's or General Science Req's) that are *unique* to that major. **83 h  47 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**