

# B.S. BIOLOGY

## CELL BIOLOGY

Use 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 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 <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"/>
Goal 4. Culture & Diversity	Outcome 1 <input type="checkbox"/>	Outcome 2 <input type="checkbox"/>
Goal 5. Social Responsibility & Ethics	<input type="checkbox"/>	Natural Sciences (Can be satisfied by degree reqs.)
Goal 6. Integration & Creativity	(Can be satisfied by degree reqs.)	

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

**GENERAL SCIENCE REQUIREMENTS (31–33 h)**

CHEM 130 Chemistry I (5)	<input type="checkbox"/>	CHEM 335 Organic Chemistry II (3)	<input type="checkbox"/>
CHEM 135 Chemistry II (5)	<input type="checkbox"/>	MATH 121 Calculus I (5) <b>OR</b> MATH 115 & 116 Calculus I & II (6)	<input type="checkbox"/> ( <input type="checkbox"/> )
CHEM 330 Organic Chemistry I (3)	<input type="checkbox"/>	PHSX 114 & 115 College Physics I & II (8) <b>OR</b>	<input type="checkbox"/> <input type="checkbox"/>
CHEM 331 Organic Chemistry I Lab (2)	<input type="checkbox"/>	PHSX 211+216 & 212+236 Gen. Physics I & II (9)	

**GENERAL BIOLOGY REQUIREMENTS (20-23 h)**

BIOL 150/151 Prin Molecular & Cell Biol (4)	<input type="checkbox"/>	BIOL 408 Physiology of Organisms (3)	<input type="checkbox"/>
BIOL 152/153 Prin Organismal Biology (4)	<input type="checkbox"/>	BIOL 412 Evolutionary Biology (3-4)	<input type="checkbox"/>
BIOL 350/360 Principles of Genetics (3-4)	<input type="checkbox"/>	BIOL 600 Introductory Biochemistry, Lectures (3-4)	<input type="checkbox"/>

**CELL BIOLOGY REQUIREMENTS (19 h)**

BIOL 416/536 Cell Structure & Function (3)	<input type="checkbox"/>	BIOL 426 Laboratory in Cell Biology (3)	<input type="checkbox"/>
BIOL 417 Biology of Development (3)	<input type="checkbox"/>	BIOL 599 Senior Seminar: Cell Biology (1) ( <i>must be taken Sr yr</i> )	<input type="checkbox"/>
Cell Biology Electives—9 h from the following: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ( <input type="checkbox"/> )			
BIOL 400/401 Fundamentals of Microbiology (3)		BIOL 570 Introduction to Biostatistics (3)	
BIOL 402 Fundamentals of Microbiology Lab (2)		BIOL 646 Mammalian Physiology (4)	
BIOL 435 Introduction to Neurobiology (3)		BIOL 673 Cellular and Molecular Neurobiology (3)	
BIOL 503 Immunology (3)		BIOL 688 Molecular Biology of Cancer (3)	
BIOL 504 Immunology Laboratory (2)		BIOL 752 Cell Biology (3)	
BIOL 512 General Virology (3)		BIOL 755 Mechanisms of Development (3)	
BIOL 513 Virology Laboratory (2)		BIOL 756 Cell and Tissue Culture Laboratory (3)	

**CELL BIOLOGY SEMINAR AND LABORATORY REQUIREMENTS (4 h):** ≥ 2 h of lab credit (BIOL lab numbered 400 or higher) and ≥ 2 h of a seminar/topics course (BIOL 419, 420, 499, 701). Two h of BIOL 424 will satisfy the lab requirement.

BIOL _____ ( __ lab h)	<input type="checkbox"/>	BIOL _____ ( __ seminar h)	<input type="checkbox"/>
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- **Completing the minimum General Science and major requirements** set forth above results in **74 overall h** and **43 Jr/Sr h**. Double majors must complete ≥ 15 h in the major (i.e., not in Core/Gen Ed Reqs or General Science Reqs) that are *unique* to that major. **74 h**  **43 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**