

# B.S. BIOLOGY

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## TEACHING BIOLOGY

Use 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 <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.)	

**GENERAL SCIENCE REQUIREMENTS (28–31 h)**

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

**GENERAL BIOLOGY REQUIREMENTS (32–33 h)**

BIOL 150/151 Prin Molecular & Cell Biol (4) <input type="checkbox"/>	BIOL 414 Principles of Ecology (3) <input type="checkbox"/>	
BIOL 152/153 Prin Organismal Biology (4) <input type="checkbox"/>	BIOL 416/536 Cell Structure and Function (3) <input type="checkbox"/>	
BIOL 350/360 Principles of Genetics (4) <input type="checkbox"/>	BIOL 598 Research Methods (3) <input type="checkbox"/>	
BIOL 412 Evolutionary Biology (4) <input type="checkbox"/>	BIOL 599 Senior Seminar in Biology (1) ( <i>must be taken Sr yr</i> ) <input type="checkbox"/>	
One (3 h) of the following two courses: <input type="checkbox"/>		
BIOL 413 History and Diversity of Organisms (3)	BIOL 428 Introduction to Systematics (3)	
One (3-4 h) of the following three courses: <input type="checkbox"/>		
BIOL 400/401 Fundamentals of Microbiology (3)	BIOL 600 Introductory Biochemistry, Lectures (3-4)	
BIOL 408 Physiology of Organisms (3)		

**TEACHING BIOLOGY ELECTIVE AND LABORATORY REQUIREMENTS (7 h): BIOL courses numbered 400 or higher, including  $\geq 4$  h of lab credit.** Courses listed above that have not been used to fulfill the above requirements may be used as electives. 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, with no more than 2 h of BIOL 424 being applied towards the laboratory requirement.

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

**EDUCATION REQUIREMENTS (21 h)**

LA&S 290 Approaches to Teaching Science and Math I (1) <input type="checkbox"/>	LA&S 291 Approaches to Teaching Science and Math II (1) <input type="checkbox"/>	
<i>School of Education courses:</i>		
C&T 360 Knowing & Learning in Math & Science (3) <input type="checkbox"/>	C&T 460 Project-based Instruction in Math & Science (3) <input type="checkbox"/>	
C&T 366 Classroom Interactions in Math & Science (3) <input type="checkbox"/>	C&T 500 Student Teaching (6) <input type="checkbox"/>	
C&T 448 Reading Across the Curriculum (3) <input type="checkbox"/>	C&T 598 Special Topics Seminar (1) <input type="checkbox"/>	

- **Completing the min. Gen. Science, major, and School of Education reqs.** set forth above results in **87 overall h** and **54 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in Core/Gen Ed Reqs or Gen Science Reqs) that are *unique* to that major. **87 h**  **54 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**