

# B.S. BIOLOGY

## TEACHING 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 <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"/>
Goal 4. Culture & Diversity	Outcome 1 <input type="checkbox"/>	Natural Sciences (Can be satisfied by degree reqs.)
Goal 5. Social Responsibility & Ethics	Outcome 2 <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 (28–30 h)**

CHEM 130 Foundations of Chemistry I (5)	<input type="checkbox"/>	CHEM 331 Organic Chemistry I Lab (2)	<input type="checkbox"/>
CHEM 135 Foundations of 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 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"/>
CHEM 330 Organic Chemistry I (3)		PHSX 211+216 & 212+236 Gen. Physics I & II (9)	

**GENERAL BIOLOGY REQUIREMENTS (30–31 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 (3-4)	<input type="checkbox"/>	BIOL 598 Research Methods (3)	<input type="checkbox"/>
BIOL 412 Evolutionary Biology (3-4)	<input type="checkbox"/>	BIOL 599 Senior Seminar in Biology (1) (must be taken Sr yr)	<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 h) of the following three courses:	<input type="checkbox"/>		
BIOL 400/401 Fundamentals of Microbiology (3)		BIOL 600 Introductory Biochemistry, Lectures (4)	
BIOL 408 Physiology of Organisms (3)			

**TEACHING BIOLOGY ELECTIVE AND LABORATORY REQUIREMENTS (7 h): BIOL courses numbered 400 or higher, including ≥ 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 **86 overall h** and **53 Jr/Sr h**. Double majors must complete ≥ 15 h in the major (i.e., not in Core/Gen Ed Req or Gen Science Req) that are *unique* to that major. **86 h**  **53 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**