

B.S. BIOLOGY

ORGANISMAL 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"/>	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	<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) OR MATH 115 & 116 Calculus I & II (6)	<input type="checkbox"/> (<input type="checkbox"/>)
CHEM 310 Fund Organic Chemistry (3) OR	<input type="checkbox"/>	PHSX 114 & 115 College Physics I & II (8) OR	<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 (18 h)

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

ORGANISMAL BIOLOGY REQUIREMENTS (21 h)

BIOL 408 Physiology of Organisms (3)	<input type="checkbox"/>	BIOL 413 History & Diversity of Organisms (3)	<input type="checkbox"/>
BIOL 409 Physiology of Organisms Lab (2)	<input type="checkbox"/>	BIOL 599 Senior Seminar: Organismal Biology (1) (<i>must be taken Sr yr</i>)	<input type="checkbox"/>
One (3 h) of the following three courses:	<input type="checkbox"/>		
BIOL 414 Principles of Ecology (3)		BIOL 428 Introduction to Systematics (3)	
BIOL 416/536 Cell Structure and Function (3)			

At least one course from each of the following three groups (9 h)

- Development and Morphology Group:** BIOL 417 Biology of Development (3); BIOL 440 Advanced Human Anatomy (6); BIOL 510 Comparative Anatomy (5); BIOL 528/708 External Morphology of Insects (3); BIOL 545 Evolution and Development (3)
- Function Group:** BIOL 435 Intro to Neurobiology (3); BIOL 503 Immunology (3); BIOL 506 Pathogenic Microbiology (3); BIOL 526/716 Insect Physiology and Internal Morphology (3); BIOL 606 Ecological Plant Physiology (3); BIOL 644 Comparative Animal Physiology (3); BIOL 646 Mammalian Physiology (4); BIOL 652 Comparative Animal Behavior (3); BIOL 655 Behavioral Genetics (3); BIOL 667 Chemical Communication in Sex, Feeding, & Fighting (3); BIOL 673 Cellular and Molecular Neurobiology (3)
- Diversity Group:** ANTH 440 History of Primates (3); BIOL 400/401 Fundamentals of Microbiology (3); BIOL 494 Introduction to Mammalogy (3); BIOL 500 Biology of Insects (3); BIOL 505 Social Insects (3); BIOL 509 Biology of Spiders (3); BIOL 512 General Virology (3); BIOL 521/711 Insect Systematics (3); BIOL 529/709 Immature Insects (3); BIOL 533 Biology of Fungi (3); BIOL 540 General Invertebrate Zoology (3); BIOL 583/783 Herpetology (3); BIOL 592/792 Ichthyology (3); BIOL 593 Ornithology (3); BIOL 603 Systematic Botany (3); BIOL 613 Biology of Honeybees (3); BIOL 622 Invertebrate Paleontology (3); BIOL 640 Biology and Evolution of Fossil Plants (3)

ORGANISMAL BIOLOGY ELECTIVE AND LABORATORY REQUIREMENTS (10 h): BIOL courses numbered 400 or higher, including ≥ 2 h of lab credit and ≥ 1 h of seminar/topics course (BIOL 419, 420, 499, 701). 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)	<input type="checkbox"/>	BIOL _____ (__ lab h)	<input type="checkbox"/>	BIOL _____ (__ h)	<input type="checkbox"/>
BIOL _____ (__ h)	<input type="checkbox"/>	BIOL _____ (__ seminar h)	<input type="checkbox"/>		

- **Completing the minimum General Science and major requirements** set forth above results in **77 overall h** and **46 Jr/Sr h**. Double majors must complete ≥ 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. **77 h** **46 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**