

B.S. BIOLOGY

ORGANISMAL BIOLOGY

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

GENERAL EDUCATION REQUIREMENTS (33 h)

- Written Communication (9 h): ENGL 101 ENGL 102/105 ENGL 203, 205, 209, 210, or 211
- Argument & Reason (3 h): COMS 130, COMS 230, PHIL 148, or PHIL 310
- Western Civilization (6 h): HWC 204/114 HWC 205/115
- Principal course and/or second language requirements (No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement: http://clas.ku.edu/undergrad/curriculum/principal_courses)
- Social Science (3 h) (SC/SF/SI): Humanities (3 h) (HL/HR/HT):
- 3 additional courses in social sciences (SC/SF/SI), humanities, (HL/HR/HT), and/or second language: _____ _____ _____

GENERAL SCIENCE REQUIREMENTS (28–30 h)

- CHEM 184/130[§] Foundations of Chemistry I (5) CHEM 625/331[§] Organic Chemistry I Lab (2)
- CHEM 188/135[§] Foundations of Chemistry II (5) MATH 121 Calculus I (5) **OR** MATH 115 & 116 Calculus I & II (6) ()
- CHEM 622/310[§] Fund Organic Chemistry (3) **OR** PHSX 114 & 115 College Physics I & II (8) **OR**
- CHEM 624/330[§] *Organic Chemistry I (3) PHSX 211 & 212 (8)/PHSX 211+216 & 212+236[^] (9) Gen. Physics I & II
- [§] CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.
- [^] PHSX course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.

GENERAL BIOLOGY REQUIREMENTS (18 h)

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

ORGANISMAL BIOLOGY REQUIREMENTS (21 h)

- BIOL 408 Physiology of Organisms (3) BIOL 413 History & Diversity of Organisms (3)
- BIOL 409 Physiology of Organisms Lab (2) BIOL 599 Senior Seminar: Organismal Biology (1) (*must be taken Sr yr*)
- One (3 h) of the following three courses:
- BIOL 414 Principles of Ecology (3) BIOL 428 (formerly 550) 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 610 Plant Kingdom (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) BIOL _____ (__ lab h) BIOL _____ (__ h)
- BIOL _____ (__ h) BIOL _____ (__ seminar 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**
- Completing the minimum degree requirements set forth above results in **110 overall h** and **46 Jr/Sr h**. Double majors must complete ≥ 15 h in the major (i.e., not in General Education Requirements or General Science Requirements) that are *unique* to that major. **110 h** **46 Jr/Sr h**