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)**

<table>
<thead>
<tr>
<th>Written Communication (9 h):</th>
<th>ENGL 101 ☐</th>
<th>ENGL 102/105 ☐</th>
<th>ENGL 203, 205, 209, 210, or 211 ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argument &amp; Reason (3 h):</td>
<td>COMS 130, COMS 230, PHIL 148, or PHIL 310 ☐</td>
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<tr>
<td>Western Civilization (6 h):</td>
<td>HWC 204/114 ☐</td>
<td>HWC 205/115 ☐</td>
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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/SL): ☐**

Humanities (3 h) (HL/HR/HT): ☐

3 additional courses in social sciences (SC/SF/SL), humanities, (HL/HR/HT), and/or second language: ☐ ☐ ☐

**GENERAL SCIENCE REQUIREMENTS (28–30 h)**

<table>
<thead>
<tr>
<th>CHEM 184/130* Foundations of Chemistry I (5)</th>
<th>☐</th>
<th>CHEM 625/331† Organic Chemistry I Lab (2)</th>
<th>☐</th>
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<tbody>
<tr>
<td>CHEM 188/135† Foundations of Chemistry II (5)</td>
<td>☐</td>
<td>MATH 121 Calculus I (5) OR MATH 115 &amp; 116 Calculus I &amp; II (6)</td>
<td>☐ (☐)</td>
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<tr>
<td>CHEM 622/310† Fund Organic Chemistry (3) OR</td>
<td>☐</td>
<td>PHSX 114 &amp; 115 College Physics I &amp; II (8) OR</td>
<td>☐</td>
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<tr>
<td>CHEM 624/330† *Organic Chemistry I (3)</td>
<td>☐</td>
<td>PHSX 211 &amp; 212 (8)/PHSX 211+216 &amp; 212+236* (9) Gen. Physics I &amp; II</td>
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† CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.

**BIOL 416/417**

**ORTHODOX BIOLOGY REQUIREMENTS (21 h)**

<table>
<thead>
<tr>
<th>BIOL 408 Physiology of Organisms (3)</th>
<th>☐</th>
<th>BIOL 413 History &amp; Diversity of Organisms (3)</th>
<th>☐</th>
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</thead>
<tbody>
<tr>
<td>BIOL 409 Physiology of Organisms Lab (2)</td>
<td>☐</td>
<td>BIOL 599 Senior Seminar: Organismal Biology (1) (must be taken Sr yr)</td>
<td>☐</td>
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One (3 h) of the following three courses:

- BIOL 414 Principles of Ecology (3)
- BIOL 428 (former 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 Morphology of Vertebrates (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 _______ ( __ h) ☐
- BIOL _______ ( __ 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 ☐

5/23/2013