ORGANISMAL BIOLOGY

BACHELOR OF SCIENCE

At least 124 hrs. (of which 45 must be Jr/Sr hrs.—courses numbered 300 or above) must be completed for graduation.

Completing the minimum requirements listed on this sheet will result in 113 overall hrs. and 49 Jr/Sr hrs.

Double majors must complete at least 15 hrs. unique to the major.

I. General College Requirements (33 hrs):

   English (9 hrs.): ENGL 101 ___; ENGL 102 (or 105) ___; ENGL 203 (or 205, 209, 210, 211) ___
   Argument & Reason (3 hrs., one of the following): ___
   COMS 130, 230, PHIL 148, 310
   Western Civilization (6 hrs.): HWC 204 (or 114) ___;
   HWC 205 (or 115) ___

   Principal Course and/or Foreign Language Requirements
   (No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement. See:
   http://www2.ku.edu/~clasus/pnwc/principal_courses.shtml):
   Social Science (3 hrs.) ______; Humanities (3 hrs.) ______;
   and three additional courses in foreign language, social sciences, or humanities: ______, ______, ______.

II. General Science Requirements (28-29 hrs):

   _____ CHEM 184 Foundations of Chemistry I (5 hrs.)
   _____ CHEM 188 Foundations of Chemistry II (5 hrs.)
   _____ CHEM 622 Fund. Organic Chem. (3 hrs.) OR
   _____ CHEM 624 Organic Chem. I (3 hrs.)
   _____ CHEM 625 Organic Chemistry I lab (2 hrs.)
   _____ MATH 121 Calculus I (5 hrs.) OR
   _____ MATH 115 & MATH 116 Calculus I & II (6 hrs.)
   _____ PHSX 114 & PHSX 115 Coll. Physics I/II (8 hrs.) OR
   _____ PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.)

III. General Biology Requirements (18 hrs.):

   _____ BIOL 150 (or 151, Honors) Prin. of Molecular & Cellular Biology (4 hrs.)
   _____ BIOL 152 (or 153, Honors) Principles of Organismal Biology (4 hrs.)
   _____ BIOL 350 Principles of Genetics (3 hrs.)
   _____ BIOL 412 Evolutionary Biology (3 hrs.)
   _____ BIOL 600 Introductory Biochemistry (4 hrs.)

IV. Organismal Biology Requirements (24 hrs.)

   _____ BIOL 408 Physiology of Organisms (3 hrs.)
   _____ BIOL 409 Physiology of Organisms Lab. (2 hrs.)
   _____ BIOL 599 Senior Seminar, Organismal Biology (1 hr.) (must be taken in senior year)

   __________ TWO OF THE FOLLOWING THREE COURSES (6 hrs.)
   BIOL 413 History and Diversity of Organisms (3 hrs.)
   BIOL 414 Principles of Ecology (3 hrs.)
   BIOL 550 Intro. to Systematics (3 hrs.)

   __________ ONE OF THE FOLLOWING TWO COURSES (3 hrs.)
   BIOL 416 Cell Structure and Function (3 hrs.)
   BIOL 417 Biology of Development (3 hrs.) (may not count here if used as a Development Group course)

   A minimum of at least one course from each of the following three groups: (9 hrs.)

   Development Group:
   BIOL 417 Biology/Development; BIOL 545 Evolution/Development; BIOL 608 Developmental Plant Anatomy; BIOL 692 Developmental Genetics;
   BIOL 710 Insect Develop.; BIOL 717 Insect Ecology/Behavior.

   Function Group:
   BIOL 435 Introduction to Neurobiology; BIOL 503 Immunology; BIOL 506 Pathogenic Microbiology; BIOL 555 General Plant Physiology; BIOL 606 Ecological Plant Physiology; BIOL 644 Comparative Animal Physiology;
   BIOL 646 Mammalian Physiology; BIOL 673 Cellular & Molecular Neurobiology; BIOL 703 External Insect Morphology; BIOL 716 Insect Physiology;
   BIOL 774 Physiology of Reproduction; BIOL 776 Mammalian Neuroanatomy.

   Diversity Group:
   ANTH 440 History of Primates; BIOL 400 Fundamentals of Microbiology; BIOL 493 Introduction to Ornithology; BIOL 494 Introduction to
   Mammalogy; BIOL 500 Biology of Insects; BIOL 509 Biology of Spiders; BIOL 510 Comparative Anatomy; BIOL 511 Biology of Spiders lab;
   BIOL 512 General Virology; BIOL 533 Biology of Fungi; BIOL 540 General Invertebrate Zoology; BIOL 583/783 Herpetology; BIOL 592/792
   Ichthyology; BIOL 603 Systematic Botany; BIOL 613 Biology of Honeybees; BIOL 622 Invertebrate Paleontology; BIOL 640 Biology & Evolution of
   Fossil Plants; BIOL 709 Immature Insects; BIOL 711 Insect Systematics; BIOL 793 Ornithology.

V. Elective/Laboratory Requirements (10 hrs.):

   BIOL courses numbered 400 or higher, including at least 2 hrs. of lab credit and 1 hr. of a seminar/topics course (BIOL 419, 420, 701).
   Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hrs. 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 hours of
   BIOL 424 being applied towards the laboratory requirement.

   BIOL _____ (___ hrs.) BIOL _____ (___ hrs.)
   BIOL _____ (___ hrs.) BIOL _____ (___ hrs.)
   BIOL _____ (___ lab hrs.) BIOL _____ (___ seminar hrs.)

8/19/2009