

BA HUMAN BIOLOGY

BIOLOGY CONCENTRATION

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 **120 overall hrs.** and **33 Jr/Sr hrs.**

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

I. General College Requirements (min. 55 hrs.):

English (9 hrs.): ENGL 101 ____; ENGL 102 (or 105) ____;
ENGL 203 (or 205, 209, 210, 211); ____

Argument & Reason (3 hrs., one of following): ____
COMS 130, 230, PHIL 148, 310

Western Civilization (6 hrs.): HWC 204 (or 114) ____;
HWC 205 (or 115) ____

Principal Course Distribution Requirements: (see:
http://www2.ku.edu/~clasus/pnwc/principal_courses.shtml)

Humanities (9 hrs.):
(HT) _____, (HL) _____, (HR) _____

Social Science (9 hrs):
(SC) _____, (SD)* _____, (SF) _____
[*PSYC 104 recommended]

Non-Western Culture (3 hrs.): _____ (see:
http://www2.ku.edu/~clasus/pnwc/nonwest_culture_courses.shtml)

Foreign Language (16-20 hrs. or proficiency): _____,
_____, _____

(Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.)

II. General Science Requirements (min. 33 hrs.):

- _____ ANTH 304 Physical Anthropology (3-4 hrs.)
- _____ BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
- _____ BIOL 152/153 Principles of Organismal Biol. (4 hrs.)
- _____ MATH 115 + MATH 116 (6 hrs.) **OR**
- _____ MATH 121 (5 hrs.) Calculus I
- _____ CHEM 184 Foundations of Chemistry I (5 hrs.)
- _____ CHEM 188 Foundations of Chemistry II (5 hrs.)
- _____ PHSX 114 College Physics I **OR**
- _____ PHSX 211 General Physics I (4 hrs.)
- _____ BIOL 570 Intro. Biostatistics (3 hrs)* **OR**
- _____ PSYC 300 Statistics/Psychol. Res. (3 hrs.) **OR**
- _____ MATH 365 Elem. Statistics (3 hrs.)

(*BIOL 570 is recommended for the Biology Concentration)

III. Biology Concentration (min. 31 hrs.):

- _____ ORGANIC CHEMISTRY (3 hrs.): CHEM 622
Fund./Organic Chemistry **OR**
CHEM 624 Organic Chemistry I
- _____ CHEM 625 Organic Chemistry I Lab (2 hrs.)
- _____ PHYSICS (4 hrs.): PHSX 115 College Physics II **OR**
PHSX 212 General Physics II

- _____ GENETICS (3 hrs.): BIOL 350, Principles of Genetics
- _____ SEMINAR (1 hr.): BIOL 599 Senior Seminar in Human
Biology (*must be taken in senior year*)

Complete **two** of the following **four** categories:
(Course selections must include at least 3 hrs. of laboratory
credit, 400 level or above)

Development and Genetics (9 hrs.)

- _____ BIOL 417 Biology of Development (3 hrs.) *and*
- _____ **Six hours selected from the following courses:**
ABSC/PSYC 535 Developmental Psychopathology; ANTH
762 Human Growth & Development; BIOL 405, Laboratory
in Genetics; BIOL 416 Cell Biology; BIOL 595 Human
Genetics; BIOL 688 Molecular Biology of Cancer; PSYC 333
Child Development; PSYC 430 Cognitive; PSYC 531
Language Development; SPLH 566 Language Development

Anatomy and Physiology (10 hrs.)

- _____ BIOL 646 Mammalian Physiology (4 hrs.) *and*
- _____ **Six hours selected from the following courses:**
ANTH 542 Biology of Human Nutrition; ANTH 648 Human
Osteology; BIOL 435 Introduction to Neurobiology; BIOL
440 Advanced Human Anatomy (Lab and lecture); BIOL 600
Biochemistry (Lab BIOL 637); BIOL 647 Mammalian
Physiology laboratory; HSES 672 Exercise Physiology; PSYC
370 Brain & Behavior; PSYC 380 Brain & Pathology; PSYC
475 Cognitive Neuroscience

Evolution, Ecology, and Adaptation (9 hrs.)

- _____ BIOL 412 Evolutionary Biology (3 hrs.) *and*
- _____ **Six hours selected from the following courses:**
ANTH 340 Human Variation; ANTH 341 Human Evolution;
ANTH 350 Human Adaptation; ANTH 652 Population
Dynamics; BIOL 410 Human Biogeography; BIOL 414
Principles of Ecology; BIOL 668 Evolutionary Ecology;
PSYC 555 Evolutionary Psychology

Human Disease (9 hrs.)

- _____ BIOL 400 Microbiology (*Lab, BIOL 402*) (3 hrs.) *and*
- _____ **Six hours selected from the following courses:**
ANTH 450 Adaptation and Disease; BIOL 503 Immunology
(Lab, BIOL 504); BIOL 506 Pathogenic Microbiology (Lab,
BIOL 507); BIOL 512 Virology (Lab, BIOL 513); BIOL 518
Microbial Genetics (Lab, BIOL 519); BIOL 595 Human
Genetics; BIOL 616 Medical Entomology; BIOL 688
Molecular Biology of Cancer