

CELL 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 **108 overall hrs.** and **44 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 (31-32 hrs):

- _____ CHEM 184 Foundations of Chemistry I (5 hrs.)
- _____ CHEM 188 Foundations of Chemistry II (5 hrs.)
- _____ CHEM 624 Organic Chem. I (3 hrs.)
- _____ CHEM 625 Organic Chemistry I lab (2 hrs.)
- _____ CHEM 626 Organic Chemistry II (3 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 (21 hrs.):

- _____ BIOL 150 (or 151, Honors) Principles 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 408 Physiology of Organisms (3 hrs.)
- _____ BIOL 412 Evolutionary Biology (3 hrs.)
- _____ BIOL 600 Intro. Biochemistry (4 hrs.)

IV. Cell Biology Requirements (19 hrs.):

- _____ BIOL 416 Cell Structure & Function (3 hrs.)
- _____ BIOL 417 Biology of Development (3 hrs.)
- _____ BIOL 426 Laboratory in Cell Biology (3 hrs.)
- _____ BIOL 599 Senior Seminar in Cell Biology (1 hr.)
(must be taken in senior year)

Cell Biology Electives (9 hrs. from the following list):

- _____ BIOL 400 (or 401) Fund./Microbiology (or Honors) (3 hrs.)
- _____ BIOL 402 Fund./Microbiology Lab (2 hrs.)
- _____ BIOL 435 Introduction to Neurobiology (3 hrs.)
- _____ BIOL 503 Immunology (3 hrs.)
- _____ BIOL 504 Immunology Lab (2 hrs.)
- _____ BIOL 512 General Virology (3 hrs.)
- _____ BIOL 513 Virology Lab (2 hrs.)
- _____ BIOL 570 Introduction to Biostatistics (3 hrs.)
- _____ BIOL 646 Mammalian Physiology (4 hrs.)
- _____ BIOL 673 Cellular/Molecular Neurobiology (3 hrs.)
- _____ BIOL 688 Molecular Biology of Cancer (3 hrs.)
- _____ BIOL 690 Control Mechanisms of Developm. (3 hrs.)
- _____ BIOL 719 Light and Electron Microscopy (3 hrs.)
- _____ BIOL 752 Cell Biology (3 hrs.)
- _____ BIOL 756 Cell and Tissue Culture Laboratory (3 hrs.)

V. Seminar/Laboratory Requirements (4 hrs.):

At least **2 hrs. of laboratory credit** (**BIOL laboratories numbered 400 or higher**) and **2 hrs. of a seminar/topics course** (**BIOL 419, 420, 701**). Two hours of BIOL 424 will satisfy the laboratory credit requirement.

BIOL ____ (____ lab hrs.)

BIOL ____ (____ seminar hrs.)