

CELL BIOLOGY

BACHELOR OF SCIENCE

Requirements apply to students entering Spring 2003 and later. At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. General College Requirements (33 hrs):

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

Oral Communication/Logic (3 hrs.): COMS 130/230, PHIL 148/310, **OR** Exemption/Examination ___

Western Civilization (6 hrs.): HWC 204 (or 114) ___ and 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 Undergraduate Catalog and Timetable for list of principal courses and topical subgroups.):

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.)

- _____ **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 and Molecular Neurobiology (3 hrs.)
 - BIOL 688 Molecular Biology of Cancer (3 hrs.)
 - BIOL 690 Control Mechanisms of Development (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.)

- _____ BIOL 599 Senior Seminar in Cell Biology (1 hr.)
(must be taken in senior year)

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**).

BIOL ___ (___ lab hrs.)

BIOL ___ (___ seminar hrs.)