

MICROBIOLOGY

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 **117 overall hrs.** and **57 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 (49-50 hrs):

____ BIOL 150 Principles of Molecular and Cellular Biology (4 hrs.) (or BIOL 151)

____ BIOL 350 Principles of Genetics (3 hrs.)

____ CHEM 184 Foundations of Chemistry I (5 hrs.)

____ CHEM 188 Foundations of Chemistry II (5 hrs.)

____ CHEM 624 Organic Chemistry I (3 hrs.)

____ CHEM 625 Organic Chemistry I lab (2 hrs.)

____ CHEM 626 Organic Chemistry II (3 hrs.)

____ CHEM 627 Organic Chemistry II lab (2 hrs.)

____ PHSX 114 & PHSX 115 Col. Physics I/II (8 hrs.) **OR**

____ PHSX 211 & PHSX 212 General Physics I/II (8 hrs.)

____ MATH 121 Calculus I (5 hrs.) **OR**

____ MATH 115 & MATH 116 Calculus I & II (6 hrs.)

____ BIOL 570 Statistics (3 hrs.) **OR**

____ MATH 365 (3 hrs.) **OR** PSYC 300 (3 hrs.)

____ BIOL 636 Biochemistry I (3 hrs.)

____ BIOL 638 Biochemistry II (3 hrs.)

III. Microbiology Requirements (29 hrs.):

____ BIOL 400 Fundamentals of Microbiology (3 hrs.)
(or BIOL 401, Honors)

____ BIOL 402 Fund./ Microbiology Laboratory (2 hrs.)
(or BIOL 403, Honors)

____ BIOL 416 Cell Structure and Function (3 hrs.)

____ BIOL 503 Immunology (3 hrs.)

____ BIOL 504 Immunology Laboratory (2 hrs.)

____ BIOL 506 Pathogenic Microbiology (3 hrs.)

____ BIOL 507 Pathogenic Microbiology Lab. (2 hrs.)

____ BIOL 512 General Virology (3 hrs.)

____ BIOL 513 Virology Laboratory (2 hrs.)

____ BIOL 518 Microbial Genetics (3 hrs.)

____ BIOL 519 Microbial Genetics Laboratory (2 hrs.)

____ BIOL 599 Senior Seminar – Current Progress in Microbiology (1 hr.) (*must be taken in senior year*)

IV. Elective Requirements (6 hrs.):

Biology courses numbered 400 or higher to be selected in consultation with a microbiology advisor. A course listed above which has not been used to fulfill the above requirements, or BIOL 423 Non-Laboratory Independent Study or BIOL 424 Independent Study, may be used as an elective.

BIOL ____ (____ hrs.)

BIOL ____ (____ hrs.)

BIOL ____ (____ hrs.)