

# BIOCHEMISTRY

## BACHELOR OF ARTS

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 **121 overall hrs.** and **34 Jr/Sr hrs.**

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

### I. General College Requirements (55 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 Distribution Requirements:** (see:

[http://www2.ku.edu/~clasus/pnwc/principal\\_courses.shtml](http://www2.ku.edu/~clasus/pnwc/principal_courses.shtml))

**Humanities** (9 hrs.):

(HT) \_\_\_\_\_, (HL) \_\_\_\_\_, (HR) \_\_\_\_\_

**Social Science** (9 hrs.):

(SC) \_\_\_\_\_, (SI) \_\_\_\_\_, (SF) \_\_\_\_\_

**Non-Western Culture** (one course): \_\_\_\_ (see:

[http://www2.ku.edu/~clasus/pnwc/nonwest\\_culture\\_courses.shtml](http://www2.ku.edu/~clasus/pnwc/nonwest_culture_courses.shtml))

**Foreign Language** (16-20 hrs. or proficiency): \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

### II. General Science Requirements (35-39 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 Chem. I lab (2 hrs.)

\_\_\_\_\_ CHEM 626 Organic Chem. II (3 hrs.)

\_\_\_\_\_ CHEM 640 Biol. Physical Chem. (3 hrs.)

\_\_\_\_\_ \*MATH 115 & MATH 116 Calculus I & II (6 hrs.) **OR**

\_\_\_\_\_ MATH 121 & MATH 122 Calculus I & II (10 hrs.)

\_\_\_\_\_ PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.) **OR**

\_\_\_\_\_ PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

\*Students who plan to attend graduate school should enroll in

MATH 121 and 122.

### III. Biochemistry Requirements (25 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 636 Biochemistry I (3 hrs.)

\_\_\_\_\_ BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)

\_\_\_\_\_ BIOL 638 Biochemistry II (3 hrs.)

\_\_\_\_\_ BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)

\_\_\_\_\_ BIOL 672 Gene Expression (3 hrs.)

\_\_\_\_\_ BIOL 599 Senior Seminar in Biochemistry (1 hr.)

(must be taken in senior year)

### IV. Elective Requirements (6 hrs.):

**Biology courses numbered 400 or higher must be selected in consultation with a Biochemistry advisor.** Some suggested courses are:

BIOL 400 Fundamentals of Microbiology

BIOL 408 Physiology of Organisms

BIOL 416 Cell Structure & Function

BIOL 417 Biology of Development

BIOL 424 Independent Study

BIOL 646 Mammalian Physiology

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.

BIOL \_\_\_\_ (\_\_\_\_ hrs.)

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BIOL \_\_\_\_ (\_\_\_\_ hrs.)