

# MOLECULAR BIOSCIENCES \*

## 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 **109 overall hrs.** and **45 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, 362) \_\_\_

**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](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 (36-37 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.)
- \_\_\_ MATH 115 **and** MATH 116 Calculus I/II (6 hrs.) **OR**
- \_\_\_ MATH 121 Calculus I (5 hrs.)
- \_\_\_ BIOL 570 Statistics (3 hrs.) **OR**
- \_\_\_ MATH 365 (3 hrs.) **OR** PSYC 300 (3 hrs.)
- \_\_\_ PHSX 114 **and** PHSX 115 Coll. Physics I/II (8 hrs.) **OR**
- \_\_\_ PHSX 211 **and** PHSX 212 General Physics I & II (8 hrs.)

### III. Molecular Biosciences Requirements (29 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 400 Fundamentals of Microbiology (3 hrs.)
- \_\_\_ BIOL 402 Fundamentals of Microbiology Lab (2 hrs.)
- \_\_\_ BIOL 405 Laboratory in Genetics (2 hrs.)

- \_\_\_ BIOL 416 Cell Structure and Function (3 hrs.)
- \_\_\_ BIOL 430 Molecular Biology Laboratory (3 hrs.)
- \_\_\_ BIOL 600 Introductory Biochemistry (4 hrs.)
- \_\_\_ BIOL 599 Senior Seminar in Molecular Biosciences (1 hr.)  
(must be taken in senior year)  
**offered only at Edwards Campus**

### IV. General Biology Electives, Seminar and Laboratory Requirements (11 hrs.):

**BIOL courses numbered 400 or higher, including at least 2 hrs. of lab credit and 2 hrs. of a seminar/topics course (BIOL 419, 420, 701).** 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 with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

- BIOL \_\_\_\_\_ (\_\_\_ hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ lab hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ lab hrs.)
- BIOL \_\_\_\_\_ (\_\_\_ seminar hrs.)

\* This degree is offered at the **EDWARDS campus ONLY.**

**Junior/Senior level BIOL courses for this degree must be completed at the Edwards campus.**

**Declaration of Major forms for Molecular Biosciences must be signed by an Edward campus advisor. Contact Dan Mueller at 913-897-8659 (x4-8659) for more information.**