

## B.S. MOLECULAR BIOSCIENCES \*

To learn about requirements for admission to the major, please visit our online course catalog page: <http://www2.ku.edu/~distinction/cgi-bin/admission368>

### GENERAL EDUCATION REQUIREMENTS (33 h)

Written Communication (9 h): ENGL 101  ENGL 102 or 105  ENGL 203, 205, 209, 210, 211 or 362

Argument & Reason (3 h): COMS 130, COMS 230, PHIL 148, or PHIL 310

Western Civilization (6 h): HWC 204  HWC 205

Principal course and/or second language requirements (No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement: [http://clas.ku.edu/undergrad/curriculum/principal\\_courses](http://clas.ku.edu/undergrad/curriculum/principal_courses))

Social Science (3 h) (SC/SF/SI):  Humanities (3 h) (HL/HR/HT):

3 additional courses in social sciences (SC/SF/SI), humanities, (HL/HR/HT), and/or second language: \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

### GENERAL SCIENCE REQUIREMENTS (36–38 h)

CHEM 184/130<sup>§</sup> Foundations of Chemistry I (5)  MATH 115 & 116 Calculus I & II (6) **OR** MATH 121 Calculus I (5)  ()

CHEM 188/135<sup>§</sup> Foundations of Chemistry II (5)  BIOL 570 Intro Biostatistics (3) **OR** MATH 365 Elementary

CHEM 624/330<sup>§</sup> Organic Chemistry I (3)  Statistics (3) **OR** PSYC 210 Statistics Psychol Research (3)

CHEM 625/331<sup>§</sup> Organic Chemistry I Lab (2)  PHSX 114 & 115 College Physics I & II (8) **OR**

CHEM 626/335<sup>§</sup> Organic Chemistry II (3)  PHSX 211 & 212 (8)/PHSX 211+216 & 212+236<sup>^</sup> (9) Gen. Physics I & II

CHEM 627/336<sup>§</sup> Organic Chemistry II Lab (2)

<sup>§</sup> CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and [classes.ku.edu](http://classes.ku.edu).

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### MOLECULAR BIOSCIENCES REQUIREMENTS (29 h)

BIOL 150 Prin Molecular & Cell Biol (4)  BIOL 416 Cell Structure & Function (3)

BIOL 152 Prin Organismal Biology (4)  BIOL 430 Molecular Biology Laboratory (3)

BIOL 350 Principles of Genetics (3)  BIOL 599 Senior Seminar: Molecular Biosciences (1) (*must be taken*

BIOL 400 Fundamentals Microbiology (3)  *Sr yr; offered only at Edwards campus)*

BIOL 402 Fund Microbiology Lab (2)  BIOL 600 Introductory Biochemistry, Lectures (4)

BIOL 405 Laboratory in Genetics (2)

**MOLECULAR BIOSCIENCES ELECTIVE, SEMINAR, & LABORATORY REQUIREMENTS (11 h):** BIOL courses numbered 400 or higher, including  $\geq 2$  h of lab credit and  $\geq 2$  h of seminar/topics course (BIOL 419, 420, 701). No more than 3 h 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 h of BIOL 424 being applied towards the laboratory requirement.

BIOL \_\_\_\_\_ ( \_\_ h)  BIOL \_\_\_\_\_ ( \_\_ lab h)

BIOL \_\_\_\_\_ ( \_\_ h)  BIOL \_\_\_\_\_ ( \_\_ lab h)

BIOL \_\_\_\_\_ ( \_\_ h)  BIOL \_\_\_\_\_ ( \_\_ seminar h)

BIOL \_\_\_\_\_ ( \_\_ h)

• At least 120 h (of which 45 must be Jr/Sr h—courses numbered 300 or above) must be completed for graduation. **120 h**  **45 Jr/Sr h**

• Completing the minimum degree requirements set forth above results in **109 overall h** and **42 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in General Education Requirements or General Science Requirements) that are *unique* to that major. **109 h**  **42 Jr/Sr h**

**\* This degree is offered at the Edwards campus *only*. Jr/Sr level BIOL courses for this degree must be completed at the Edwards campus. Major Declaration Intent forms for B.S. Molecular Biosciences must be signed by an Edwards campus advisor. Contact Dan Mueller at (913) 897-8659 (x4-8659) for more information.**