

# B.S. BIOCHEMISTRY

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 102/105  ENGL 203, 205, 209, 210, or 211

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

Western Civilization (6 h): HWC 204/114  HWC 205/115

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 (44–45 h)

CHEM 184/130<sup>§</sup> Foundations of Chemistry I (5)  CHEM 627/336<sup>§</sup> Organic Chemistry II Lab (2)

CHEM 188/135<sup>§</sup> Foundations of Chemistry II (5)  CHEM 640/510<sup>§</sup> Biological Physical Chemistry (3) **OR**

CHEM 516/620<sup>§</sup> \* Analytical Chemistry (3)  CHEM 646/530<sup>§</sup> Physical Chemistry (3)

CHEM 624/330<sup>§</sup> Organic Chemistry I (3)  MATH 121 & 122 Calculus I & II (10)

CHEM 625/331<sup>§</sup> Organic Chemistry I Lab (2)  PHSX 211 & 212 (8)/ PHSX 211+216 & 212+236<sup>^</sup> (9) Gen. Physics I & II **OR**

CHEM 626/335<sup>§</sup> Organic Chemistry II (3)  PHSX 114 & 115 College Physics I & II (8)

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

\* CHEM 517/621 Analytical Chem Lab (2) is a co-requisite of CHEM 516 and was incorporated into BS Biochemistry degree requirements effective Fall 2012.

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

## BIOCHEMISTRY REQUIREMENTS (25 h)

BIOL 150/151 Prin Molecular & Cell Biol (4)  BIOL 638 Biochemistry II (3)

BIOL 152/153 Prin Organismal Biology (4)  BIOL 639 Advanced Biochemistry Lab (2)

BIOL 350/360 Principles of Genetics (3)  BIOL 672 Gene Expression (3)

BIOL 636 Biochemistry I (3)  BIOL 599 Senior Seminar: Biochemistry (1) (must be taken Sr yr)

BIOL 637 Introductory Biochemistry Lab (2)

## BIOCHEMISTRY ELECTIVE REQUIREMENTS (12 h): BIOL courses numbered 400 or higher must be selected in consultation with a Biochemistry advisor. Some suggested courses are the following:

BIOL 400/401 Fund Microbiology (3) BIOL 424 Independent Study (variable) BIOL 518 Microbial Genetics (3)

BIOL 408 Physiology of Organisms (3) BIOL 430 Lab in Molecular Biology (3) BIOL 688 Molecular Biology of Cancer (3)

BIOL 416/536 Cell Structure & Function (3)

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.

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

BIOL \_\_\_\_\_ ( \_\_ 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 **114 overall h** and **45 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. **114 h**  **45 Jr/Sr h**