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)

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 *(38–39 h)*

CHEM 184/130/170§ Chemistry I (5)	☐	CHEM 627/336§ Organic Chemistry II Lab (2)	☐
CHEM 188/135/175§ Chemistry II (5)	☐	MATH 121 & 122 Calculus I & II (10)	☐ ☐
CHEM 624/330§ Organic Chemistry I (3)	☐	PHSX 211 & 212 (8)/ PHSX 211+216 & 212+236^ (9) Gen. Physics I & II ***OR***	☐ ☐
CHEM 625/331§ Organic Chemistry I Lab (2)	☐	PHSX 114 & 115 College Physics I & II (8)	
CHEM 626/335§ Organic Chemistry II (3)	☐		

§ *CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.*
^ *PHSX course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.*

BIOCHEMISTRY REQUIREMENTS *(33 h)*

BIOL 150/151 Prin Molecular & Cell Biol (4)	☐	BIOL 672 Gene Expression (3)	☐
BIOL 152/153 Prin Organismal Biology (4)	☐	BIOL 599 Senior Seminar: Biochemistry (1) (*must be taken Sr yr*)	☐
BIOL 350/360 Principles of Genetics (3)	☐	CHEM 516/620§ Analytical Chemistry (3)	☐
BIOL 636 Biochemistry I (3)	☐	CHEM 517/621§ Analytical Chemistry Laboratory (2)	☐
BIOL 637 Introductory Biochemistry Lab (2)	☐	CHEM 640/510§ Biological Physical Chemistry (3) ***OR***	☐
BIOL 638 Biochemistry II (3)	☐	CHEM 646/530§ Physical Chemistry (3)	
BIOL 639 Advanced 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 **116 overall h** and **47 Jr/Sr h.** Double majors must complete ≥ 15 h in the major (i.e., not in General Education Requirements or General Science Requirements) that are *unique* to that major. **116 h ☐ 47 Jr/Sr h ☐**