B.S. BIOLOGY

GENETICS

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

GENERAL SCIENCE REQUIREMENTS (28–30 h)

CHEM 184/130\* Foundations of Chemistry I (5) ☐
CHEM 185/135\* Foundations of Chemistry II (5) ☐
CHEM 622/310\* Fund Organic Chemistry (3) OR ☐
CHEM 624/330\* Organic Chemistry I (3) ☐
CHEM 625/331\* Organic Chemistry I Lab (2) ☐

CHEM 121 Calculus I (5) OR MATH 115 & 116 Calculus I & II (6) ☐ ☐
PHSX 114 & 115 College Physics I & II (8) OR ☐
PHSX 211 & 212 (8)/PHSX 211+216 & 212+236\^ (9) Gen. Physics I & II ☐

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

\^ Students planning to enter graduate school (particularly those interested in applying molecular techniques) or medical school are advised to enroll also in CHEM 626 & 627.

GENERAL BIOLOGY REQUIREMENTS (24 h)

BIOL 150/151 Prin Molecular & Cell Biol (4) ☐
BIOL 152/153 Prin Organismal Biology (4) ☐
BIOL 412 Evolutionary Biology (3) ☐

One (3 h) of the following three courses:

- BIOL 400/401 Fundamentals of Microbiology (3)
- BIOL 408 Physiology of Organisms (3)

BIOL 416/536 Cell Structure & Function (3)
BIOL 570 Introduction to Biostatistics (3)
BIOL 600 Introductory Biochemistry, Lectures (4)

GENETICS REQUIREMENTS (15 h)

BIOL 350/360 Principles of Genetics (3) ☐
BIOL 405 Laboratory in Genetics (2) ☐

Two courses (6 h) from the following list:

- BIOL 512 General Virology (3)
- BIOL 518 Microbial Genetics (3)
- BIOL 595 Human Genetics (3)
- BIOL 611 Molecular Evolution and Systematics (4)
- BIOL 688 Molecular Biology of Cancer (3)
- BIOL 692 Developmental Genetics (3)
- BIOL 672 Gene Expression (3)
- BIOL 599 Senior Seminar: Genetics (1) (must be taken Sr yr) ☐

GENETICS ELECTIVE AND LABORATORY REQUIREMENTS (8 h): BIOL courses numbered 400 or higher, including ≥ 3 h of lab credit and ≥ 2 h of seminar/topics course (BIOL 419, 420, 499, 701). Courses listed above that have not been used to fulfill the above requirements may be used as electives. 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) ☐

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

- Completing the minimum degree requirements set forth above results in 108 overall h and 44 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. 108 h ☐

3/13/2013