B.S. BIOLOGY

GENETICS

Use with your Degree Progress Report (DPR).

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

KU CORE REQUIREMENTS See https://kucore.ku.edu/fulfilling-the-core for approved KU Core courses and/or experiences.

Goal 1. Critical Thinking & Quantitative Literacy
Outcome 1 ☐
Outcome 2 (Can be satisfied by degree reqs.)

Goal 2. Communication
Outcome 1 ☐
Outcome 2 ☐

Goal 3. Breadth of Knowledge
Arts & Humanities ☐
Social Sciences ☐
Natural Sciences (Can be satisfied by degree reqs.)

Goal 4. Culture & Diversity
Outcome 1 ☐
Outcome 2 ☐

Goal 5. Social Responsibility & Ethics
☐

Goal 6. Integration & Creativity
☐

BS GENERAL EDUCATION REQUIREMENTS Focus on completing KU Core reqs first. Refer to your DPR and talk with a biology advisor.

GENERAL SCIENCE REQUIREMENTS (28–30 h)
CHEM 130 Foundations of Chemistry I (5) ☐
CHEM 135 Foundations of Chemistry II (5) ☐
CHEM 310 Fund Organic Chemistry (3) OR ☐
CHEM 330* Organic Chemistry I (3) ☐
CHEM 130 Foundations of Chemistry I (5) OR ☐
MATH 121 Calculus I (5) OR MATH 115 & 116 Calculus I & II (6) ☐
PHSX 114 & 115 College Physics I & II (8) OR ☐
PHSX 211+216 & 212+236 Gen. Physics I & II (9) ☐

*Students planning to enter graduate school (particularly those interested in applying molecular techniques) or medical school are advised to enroll also in CHEM 335 & 336.

GENERAL BIOLOGY REQUIREMENTS (24 h)
BIOL 150/151 Prin Molecular & Cell Biol (4) ☐
BIOL 152/153 Prin Organismal Biology (4) ☐
BIOL 412 Evolutionary Biology (3-4) ☐
One (3 h) of the following three courses:
BIOL 400/401 Fundamentals of Microbiology (3) ☐
BIOL 417 Biology of Development (3) ☐
BIOL 408 Physiology of Organisms (3) ☐

GENETICS REQUIREMENTS (15 h)
BIOL 350/360 Principles of Genetics (3-4) ☐
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 655 Behavioral Genetics (3) ☐
BIOL 688 Molecular Biology of Cancer (3) ☐
BIOL 743 Population Genetics (3) ☐
BIOL 512 General Virology (3) ☐
BIOL 747 Quantitative Genetics (3) ☐
BIOL 518 Microbial Genetics (3) ☐
BIOL 753 Advanced Genetics (3) ☐
BIOL 595 Human Genetics (3) ☐
BIOL 755 Mechanisms of Development (3) ☐
BIOL 655 Behavioral Genetics (3) ☐
ANTH 340 Human Variation and Evolution (3) ☐
BIOL 688 Molecular Biology of Cancer (3) ☐
ANTH 442 Anthropological Genetics (3) ☐
BIOL 743 Population Genetics (3) ☐
ANTH 652 Population Dynamics (3) ☐

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 _______ ( __ lab h) ☐
BIOL _______ ( __ seminar h) ☐

• Completing the minimum General Science and major requirements set forth above results in 75 overall h and 44 Jr/Sr h. Double majors must complete ≥ 15 h in the major (i.e., not in Core/Gen Ed Reqs or General Science Reqs) that are unique to that major. 75 h ☐ 44 Jr/Sr 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 ☐

3/14/2014