

NAME _____ ID# _____ Career interest: _____

BIOLOGY CORE COURSES

____ BIOL 198 Principles of Biology (4)

____ BIOL 450 Modern Genetics (4)

____ BIOL 520 Evolution (3)

OPTIONS (Complete 1 or more of options A-F)**A. Animal biology option**

____ BIOL 401 Organismic Biology (5)

____ BIOL 513 Physiological Adaptations of Animals (4) F

____ BIOL 541 Cell Biology (3)

*14 credits from the Biology Major Electives list, including 1 course with a lab experience.

Lab course: _____

B. Cellular and molecular biology option

____ BIOL 455 Microbiology (4)

____ BIOL 541 Cell Biology (3)

____ BIOL 580 Molecular Biology of Genes and Genomes (3) S

Choose BIOL 461 Phage Hunters 1 (3) F

one: BIOL 676 Molecular Genetics Laboratory (3) F

BIOL 695 Internship in Biology (3)

BIOL 698 Research in Biology (3)

*13 credits from the Biology Major Electives list, including 2 courses with a lab experience.

Lab course: _____

Lab course: _____

C. Ecology and evolutionary biology option

____ BIOL 401 Organismic Biology (5)

____ BIOL 529 Ecology (3)

____ BIOL 632 Ecology Lab (1) S

____ BIOL 640 Population Biology (3) F

*14 credits from the Biology Major Electives list, including 1 course with a lab experience.

Lab course: _____

D. Human health biology option

____ BIOL 441 Human Body 1 (4)

____ BIOL 442 Human Body 2 (4)

____ BIOL 455 Microbiology (4)

____ BIOL 541 Cell Biology (3)

*11 credits from the Biology Major Electives list.

E. Integrative biology option

____ BIOL 401 Organismic Biology (5)

____ BIOL 529 Ecology (3)

____ BIOL 541 Cell Biology (3)

*15 credits from the Biology Major Electives list, including 2 courses with a lab experience.

Lab course: _____

Lab course: _____

F. Plant biology option

____ BIOL 401 Organismic Biology (5)

____ BIOL 500 Plant Physiology (3) F

____ BIOL 551 Taxonomy of Flowering Plants (4) F

____ BIOL 461 Phage Hunters 1 (3) F

Choose BIOL 676 Molecular Genetics Lab (3) F

one: BIOL 695 Internship in Biology (2)

BIOL 698 Research in Biology (2)

*11 credits from the Biology Major Electives list if BIOL 461 or 676 is chosen above, OR 12 credits from the Biology Major Electives list if BIOL 695 or 698 is chosen above. Two courses must include a lab experience.

Lab course: _____

Lab course: _____

Classes required under each option total 26 credits. For each option, classes applied to the specific option requirements and those chosen from the Biology Major Electives list must be different classes.*BIOLOGY MAJOR ELECTIVES**BIOL courses numbered 400 level or higher. Lab courses can be either strictly lab course such as BIOL 632 or 671, or course with lecture/lab such as BIOL 455 or 513. Biology course listing at <https://courses.k-state.edu/courses/>.

Exceptions to what may be used as biology elective credits:

- ▶ Up to 2 cr. hrs. of BIOL 365 Practicum in Biology
- ▶ No more than 3 cr. hrs. from combination of BIOL 695 Internship in Biology and/or BIOL 698 Research in Biology may be applied toward biology elective credit.
- ▶ One to five credit hours for the following courses can be applied as biology major elective credit: AGRON 610 (3), AGRON 630 (3), AGRON 645 (3), AGRON 646 (1), AGRON 680 (3), ASI 533 (4), BIOCH 522 (2), BIOCH 571 (3), BIOCH 755 (3) (if not used for Biochemistry cr. in req. course list), BIOCH 765 (3) (if not used for Biochemistry cr. in req. course list), ENTOM 312 (3), GEOG 445 (3), GEOG 508 (4), PLPTH 500 (3), PLPTH 610 (3), PSYCH 470 (3)

Note: F=offered fall only; S=spring only; E=even-numbered years; O=odd years. No indication=offered fall and spring.**Additional degree requirements on back**

ARTS & SCIENCES BASIC REQUIREMENTS

- _____ ENGL 100 Expository Writing 1 (3)
- _____ ENGL 200 Expository Writing 2 (3)
- _____ COMM 105 or 106 Public Speaking 1 or 1A (2-3)

Humanities (4 courses, 11 cr. hrs. minimum. May not overlap with social science courses. Only courses taken for 2 or more credit hours satisfy these requirements. B.S. students may use 2 courses in one modern language to fulfill western heritage/literary arts requirements; B.A. students may not.)

- Fine Arts _____
- Philosophy _____
- Western Heritage _____
- Literary Arts _____

Social Sciences (4 courses, 12 cr. hrs. minimum, from at least 3 social science depts. One course must be upper level, i.e., have prerequisite in same dept. or 500 level or above. Taking both ECON 110 & 120 will also fulfill upper level req. Social science courses may not overlap with humanities courses.)

- _____
- _____
- _____

Upper Level:

U.S. Multicultural Overlay (May overlap with humanities/social science courses.)

- _____

International Overlay (May overlap with humanities/social science courses. May use 4th course in a single foreign language, other than Latin.)

MAJOR COURSES Offered by Other Departments.

Mathematics/Statistics/Computing & Info Sciences

- _____ MATH 220 Calculus I (4)
- _____ One of: STAT 325, 340, 701, 703; MATH 221, 551, 615 (S); CIS 111, 200 (Cr. 3-4)

Physics

- _____ PHYS 113 General Physics 1 (4)
- _____ PHYS 114 General Physics 2 (4)

Chemistry

- _____ CHM 210 Chem 1 (4)
- _____ CHM 230 Chem 2 (4)
- _____ *Choose
one
set: CHM 350 General Organic Chem (3)
CHM 351 General Organic Chem Lab (2)
OR
CHM 531 Organic Chem 1 (3)
CHM 532 Organic Chem Lab (2)
CHM 550 Organic Chem 2 (3)
- _____ BIOCH 521 General Biochemistry (3)

*Students planning to apply to medical, dental or pharmacy programs or graduate school should take CHM 531, CHM 532 and CHM 550 in place of CHM 350 and CHM 351.

K-STATE 8 REQUIREMENTS

One course may fulfill more than one area, and courses required in a student's major may fulfill these requirements. A minimum of four different course prefixes (e.g., AGECE, MATH, FSHS) must be represented. For more information on the K-State 8, go to <http://www.k-state.edu/kstate8/>.



Aesthetic Experience & Interpretive Understanding



Empirical and Quantitative Reasoning

BIOL 198 Principles of Biology



Ethical Reasoning and Responsibility



Global Issues and Perspectives



Historical Perspectives



Human Diversity within the U.S.



Natural and Physical Sciences

BIOL 198 Principles of Biology



Social Sciences

Only Students Completing B.A.

Complete requirements for the B.S. plus 4 courses in a foreign language sequence.

Course Record Sheet

FALL

NOTES

SPRING

NOTES

SUMMER

NOTES

FALL

SPRING

SUMMER

FALL

SPRING

SUMMER

FALL

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SUMMER

FALL

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