

**FISHERIES, WILDLIFE, CONSERVATION, &
 ENVIRONMENTAL BIOLOGY B.S.**

K-STATE CORE:	34-35 cr.
English	6
ENGL 100 Expository Writing 1	3
ENGL 200 Expository Writing 2	3
Communications	3
Public Speaking or Interpersonal Comm.	3
Mathematics & Statistics	3-4
<i>Recommended: MATH 100 or 150 or 220</i>	3-4
Natural Sciences w/ lab	4
<i>Recommended: BIOL 198 Princ. of Biol.</i>	4
Social & Behavioral Sciences	6
At least 2 courses from 2 different subjects	
Arts & Humanities	6
At least 2 courses from 2 different subjects	
Electives at 100-200 level	6
At least 6 credits at the 100-200 level, excluding those already used above	

GRADUATION REQUIREMENTS	120 credits
45 credits at the 300-level or higher	
15 of the last 30 hours (300+level) MUST be taken at K-State	
Minimum 30 credits at K-State	
Maximum 60 credits from a two-year college	
Max of 30 credits from Credit for Prior Learning (CPL)	

For class descriptions and prerequisites, visit: catalog.k-state.edu
 Approved curriculum for Fall 2025. Requirements and course options are subject to change. Please check with an advisor for the most up-to-date information on program requirements.

CONTACT US:
 Biology@ksu.edu
k-state.edu/biology
 116 Ackert Hall

PROGRAM REQUIREMENTS	Credits
BIOL 100 Biology First-year Orientation	1
Outside Concentration	9
Choose one option to fulfill the outside concentration:	
- Certificate, minor, major, or secondary major offered outside the department and Life Sciences. 9 credits of one prefix, outside BIOL, at the 300 level or with a prerequisite in the same prefix. 9 credits of microcredential.	
Overlays	[9]
Ethical Reasoning Overlay	[3]
Global Perspectives Overlay	[3]
US Multicultural Overlay	[3]
Required Biology Courses	47-51
BIOL 198 Principles of Biology	4
BIOL 221 Organismic Biology	5
BIOL 398 Principles of Genetics	4
BIOL 333 Intro to Fisheries and Wildlife Biol.	3
BIOL 529 Ecology	3
BIOL 632 Ecology lab	1
CHM 210 Chemistry 1	4
CHM 230 Chemistry 2	4
BIOCH 265 (5) Intro to Biochemistry and Organic Chemistry OR CHM 350 General Organic Chemistry (3) + CHM 351 General Organic Chemistry Laboratory (2)	5
Choose 1 Math course: MATH 100 College Algebra OR MATH 150 Trigonometry OR MATH 220 Calculus 1	3-4
PHYS 113 General Physics 1 (4) + PHYS 114 General Physics 2 (4) OR PHYS 115 Descriptive Physics (5)	5-8
Choose 1 Statistics course: STAT 225, 240, 250, or STAT 703	3
Choose 1 advanced Statistics course: STAT 341, 351, or STAT 705	3
Sub-Plan Options & FWCEB Electives	27
Fisheries Ecology & Management	27
Wildlife Ecology & Management	27
Conservation Biology	27
Environmental Biology	27
B.S. Arts/Humanities Restricted Elective	3
B.S. Social Sciences Restricted Elective	3

Free Electives to reach 120 total credits	0+
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CONSERVATION BIOLOGY	27 cr.
Conservation Biology Option	21
Choose 1: BIOL 513 Physiological Adaptations of Animals OR BIOL 500 Plants Physiology + BIOL 501 Plant Physiology Laboratory	4
Choose 1: BIOL 520 Evolution OR BIOL 521 Evolution of Infectious Disease	3
BIOL 640 Population Biology	3
BIOL 642 Principles of Conservation Biology	3
Conservation Electives	8
Choose at least 8 credits from following: - BIOL 542 Ichthyology (3) - BIOL 543 Ornithology (3) - BIOL 544 Mammalogy (3) - BIOL 551 Taxonomy of Flowering Plants (4) - BIOL 604 Biology of Fungi (3) - ENTOM 312 General Entomology (3) - Up to 3 cr. from any BIOL course 500 level or above	
FWCEB Electives	6
Choose 6 credit hours from approved electives. Courses used here may not be used elsewhere.	

ENVIRONMENTAL BIOLOGY	27 cr.
Environmental Biology Option	15
Choose 12 credits of Environmental Biology Electives, including at least 2 lab courses: BIOL 435 Environmental Biology (3) BIOL 500 Plant Physiology (3) BIOL 501 Plant Physiology Lab (<i>lab course</i>) (1) BIOL 510 Developmental Biology (3) BIOL 513 Physiological Adaptations of Animals (<i>lab course</i>) (4) BIOL 515 Behavioral Ecology (3) BIOL 520 Evolution or BIOL 521 Evolution of Infectious Disease (3) BIOL 612 Freshwater Ecology (<i>lab course</i>) (4) BIOL 640 Population Biology (3) BIOL 642 Principles of Conservation Biology (3) BIOL 682 Fish Ecology (<i>lab course</i>) (3) BIOL 687 Microbial Ecology (3) BIOL 734 Intro to Genomics & Bioinformatics (4)	12
Choose one course (3 credits) from any BIOL course at the 400 level or above.	3
FWCEB Electives	12
Choose 12 credits of FWCEB electives. No more than 3 credits below the 400 level. No course used here can be used elsewhere.	

FISHERIES ECOLOGY & MANGEMENT	27 cr.
Fisheries Ecology & Management Option	21
BIOL 513 Physiological Adaptations of Animals	4
BIOL 542 Ichthyology	3
BIOL 612 Freshwater Ecology	4
BIOL 640 Population Biology	3
BIOL 682 Fish Ecology	3
BIOL 696 Fisheries Management & Techniques	4
FWCEB Electives	6
Choose 6 credit hours from approved electives. Courses used here may not be used elsewhere.	

WILDLIFE ECOLOGY & MANGEMENT	27 cr.
Wildlife Ecology & Management Option	21
BIOL 513 Physiological Adaptations of Animals	4
BIOL 543 Ornithology	3
BIOL 544 Mammalogy	3
BIOL 551 Taxonomy of Flowering Plants	4
BIOL 640 Population Biology	3
BIOL 684 Wildlife Management & Techniques	4
FWCEB Electives	6
Choose 6 credit hours from approved electives. Courses used here may not be used elsewhere.	