

**ARKANSAS STATE UNIVERSITY / COLLEGE OF SCIENCES AND MATHEMATICS**  
**B. S. Wildlife, Fisheries & Conservation - Wildlife Emphasis**  
**FOR ADVISING PURPOSES ONLY**

CATALOG YEAR: 2022-2023

MINOR (if applicable): \_\_\_\_\_

NAME: \_\_\_\_\_

SID \_\_\_\_\_

substitution or transfer \_\_\_\_\_ course no. grade

substitution or transfer \_\_\_\_\_ course no. grade

**GENERAL EDUCATION REQUIREMENTS: 39 HRS.**

BIO 1013 Making Connections Biology \_\_\_\_\_

Communication - 9 hrs

ENG 1003 Composition I \_\_\_\_\_

ENG 1013 Composition II \_\_\_\_\_

COMS 1203 Oral Communication \_\_\_\_\_

Mathematics - 4 hrs

MATH 1054 Precalculus \_\_\_\_\_

MATH 2194 Survey of Calculus (ACT 24 +) \_\_\_\_\_

**OR**

MATH 2204 Calculus I (ACT 24 +) \_\_\_\_\_

Social Sciences - 9 hrs (Choose three)

HIST 2763 U.S. History to 1876 \_\_\_\_\_

HIST 2773 U.S. History sn 1876 \_\_\_\_\_

POSC 2103 Introduction to American Government \_\_\_\_\_

(HIST 2763 OR 2773 OR POSC 2103 REQUIRED)

PSY 2013 Introduction to Psychology \_\_\_\_\_

SOC 2213 Introduction to Sociology \_\_\_\_\_

POSC 1003 Introduction to Politics \_\_\_\_\_

ECON 2313 Principles of Macroeconomics \_\_\_\_\_

ECON 2333 Economic Issues and Concepts \_\_\_\_\_

MDIA 1003 Mass Communication in Modern Society \_\_\_\_\_

ANTH 2233 Introduction to Cultural Anthropology \_\_\_\_\_

GEOG 2613 Introduction to Geography \_\_\_\_\_

HIST 1013 World History to 1500 \_\_\_\_\_

HIST 1023 World History since 1500 \_\_\_\_\_

Fine Arts - 3 hrs

MUS 2503 FA Musical \_\_\_\_\_

ART 2503 FA Visual \_\_\_\_\_

THEA 2503 FA Theater \_\_\_\_\_

Humanities - 3 hrs

ENG 2003 World Literature to 1660 \_\_\_\_\_

ENG 2013 World Literature since 1660 \_\_\_\_\_

PHIL 1103 Introduction to Philosophy \_\_\_\_\_

Life Sciences General Education - 4 hrs

BIOL 2013 Biology of the Cell \_\_\_\_\_

BIOL 2011 Biology of the Cell Lab \_\_\_\_\_

Physical Sciences - 4 hrs

CHEM 1013 General Chemistry I \_\_\_\_\_

CHEM 1011 General Chemistry I Lab \_\_\_\_\_

Foreign Language - 0-6 hrs

(See Foreign Lang. Req. in Bulletin.)

Two years of high school foreign language will replace this requirement

unless you plan on a minor in Spanish.

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(Communications and Mathematics requirements must be met within the first 45 credit hours earned [excluding development courses]; science requirements must be met by the completion of 60 hours. Requirements will be enforced).

To earn a degree, all students must complete at least 45 hours of upper-level (Junior and Senior) classes. These classes are of the 3000/4000 prefix. They can be from any subject as long as the degree requirements are met. Any degree requirement with a 3000/4000 prefix is included in this. In addition, many minors help complete this requirement.

To graduate, the below must be met in addition to the above requirements.

- \_\_\_\_\_ 32 resident hours
- \_\_\_\_\_ 2.00 GPA average in major, overall, and A-State average.
- \_\_\_\_\_ Maximum 31 hours of corr/ext/MS/USAFI
- \_\_\_\_\_ Maximum 30 hours by exam/CLEP
- \_\_\_\_\_ 45 JR/SR hours after 30 hours
- \_\_\_\_\_ 120 hours for degree
- \_\_\_\_\_ 18 of last 24 hours on A-State campus
- \_\_\_\_\_ Minimum 57 hours from 4-year institutions
- \_\_\_\_\_ C or better in ENG 1003 and 1013

To obtain Associate Wildlife Biologist certification from the Wildlife Society after graduation, the student must complete ≥ 9 credit hours of math or stats at Pre-Cal level or above.

**MAJOR REQUIREMENTS**

**BIOLOGY REQUIREMENTS 56-60 hrs:**

BIO 1303 Biology of Animals F, S \_\_\_\_\_

BIO 1301 Biology of Animals Lab F, S \_\_\_\_\_

BIO 1503 Biology of Plants F, S \_\_\_\_\_

BIO 1501 Biology of Plants Lab F, S \_\_\_\_\_

BIO 3023 Principles of Ecology F, S \_\_\_\_\_

BIO 3013 Genetics F, S \_\_\_\_\_

BIO 3011 Genetics Lab F, S \_\_\_\_\_

BIO 4021 Biological Seminar F, S \_\_\_\_\_

BIO 4373 Animal Ecology F (odd) \_\_\_\_\_

BIO 4371 Animal Ecology Lab F (odd) \_\_\_\_\_

BIO 4413 Wildlife Program Internship\* F, S, SU \_\_\_\_\_

BIO 4653 Wildlife Management F (even) \_\_\_\_\_

BIO 4651 Wildlife Management Lab F (even) \_\_\_\_\_

BIO 4663 Wildlife Management Investigative Techniques S \_\_\_\_\_

BIO 4661 Wildlife Management Investigative Techniques Lab S \_\_\_\_\_

BIO 4704 Plant Systematics S \_\_\_\_\_

**BIOLOGY (Aquatic) ELECTIVES 3-4 hrs:**

Select One of the Following (Associated Lab Required)

BIO 4312 Fisheries Biology \_\_\_\_\_

BIO 4311 Fisheries Biology Lab \_\_\_\_\_

TBA *Freshwater Mussels* \_\_\_\_\_

TBA *Freshwater Mussels* \_\_\_\_\_

BIO 4402 Ichthyology F even \_\_\_\_\_

BIO 4401 Ichthyology Lab F even \_\_\_\_\_

BIO 4603 Limnology F odd \_\_\_\_\_

BIO 4601 Limnology Lab F odd \_\_\_\_\_

**WILDLIFE ELECTIVES 6-7 hrs:**

Select Two of the Following (Associated Lab Required)

BIO 4354 Mammalogy (F odd?) \_\_\_\_\_

BIO 4454 Herpetology S \_\_\_\_\_

BIO 4423 Ornithology S \_\_\_\_\_

BIO 4421 Ornithology Lab S \_\_\_\_\_

**CONSERVATION ELECTIVES 6 hrs:**

Select Two of the Following

BIO 3673 Human Dimensions of Natural Resources F \_\_\_\_\_

BIO 4613 Conservation Biology S \_\_\_\_\_

POSC 4533 Environmental Law and Administration S even \_\_\_\_\_

**PHYSICAL SCIENCE AND AGRICULTURE REQUIREMENTS - 7 hrs:**

CHEM 1023 General Chemistry II F, S \_\_\_\_\_

CHEM 1021 General Chemistry II Lab F, S \_\_\_\_\_

AGRI 3543 Fundamentals of GIS/GPS F, S \_\_\_\_\_

**STATISTICS REQUIREMENT - 3 hrs:**

STAT 3233 Applied Statistics I F, S, SU \_\_\_\_\_

**OR**

BIO 4043 Biometry F \_\_\_\_\_

**PHYSICAL SCIENCE ELECTIVE - 4 hrs:**

PSSC 2813 Soils F, S \_\_\_\_\_

PSSC 2811 Soils Lab F, S \_\_\_\_\_

**MAJOR ELECTIVES\*\* 11-14 hrs:**

Botany elective 3000 and above (3-4 hrs)

\_\_\_\_\_

Zoology elective 3000 and above (5-7 hrs)

\_\_\_\_\_

\_\_\_\_\_

Communication Elective (3 hrs)

ENG 3063 Writing for STEM (co-requisite BIOL 2011) F, S \_\_\_\_\_

**OTHER ELECTIVES -- TO COMPLETE 45 HOURS OF JR/SR LEVEL COURSES (if needed)**

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Clarifications

\*BIO 4413 Wildlife Internship can be substituted  
with BIO 403V Special Problems in Biology with 3 credit hours

\*\*MAJOR ELECTIVES

**Botany electives:**

BIO 3501 AND BIO 3511, Wild Flowers of Arkansas and Laboratory  
BIO 3542 AND BIO 3541, Plant Pathology and Laboratory  
BIO 3553, Economic Botany  
BIO 4513, Plant Physiology  
BIO 4522 AND BIO 4521, Wetland Plant Ecology and Laboratory  
BIO 4542 AND BIO 4541, Mycology and Laboratory  
BIO 4552 AND BIO 4551, Medical Mycology and Laboratory  
BIO 4714, Dendrology  
(BIO 4333, Collections Curation & Research Design)  
(BIO 4013 Population Genetics (cannot count for both botany and zoology elective))  
**Other courses approved by advisor**

**Zoology electives:**

BIO 3303 AND BIO 3301, General Entomology and Laboratory  
BIO 3313 AND BIO 3311, Economic Entomology and Laboratory  
BIO 3322 AND BIO 3332, Invertebrate Zoology and Laboratory  
(BIO 4302 AND BIO 4301, Aquatic Entomology and Laboratory)  
BIO 4324, Comparative Vertebrate Anatomy  
BIO 4332 AND BIO 4342, Animal Histology and Laboratory  
BIO 4333, Marine Biology  
BIO 4343 AND BIO 4341, Animal Embryology and Laboratory  
BIO 4362, Applied Aquaculture  
BIO 4372, Applied Fisheries  
(BIO 4384 Parasitology)  
BIO 4433, Field Experience in Marine Environments  
BIO 4443 AND 4441, Comparative Animal Physiology and Laboratory  
(BIO 4013 Population Genetics (cannot count for both botany and zoology elective))  
(BIO 404V Freshwater Mussels)  
**Other courses approved by advisor**

**The following courses can be used as a Zoology elective if not already taken as a required Biology Elective:**

BIO 4312 AND BIO 4311, Fisheries Biology and Laboratory  
BIO 4402 AND BIO 4401, Ichthyology and Laboratory  
BIO 4603 AND BIO 4601, Limnology and Laboratory

**The following courses can be used as a Zoology elective if not already taken as a required Wildlife Elective:**

BIO 4354, Mammalogy  
BIO 4454, Herpetology  
BIO 4423 AND BIO 4421, Ornithology and Laboratory  
**An individual course cannot be used as both a required course and an elective**

**Communication substitutions:**

ENG 3043, Technical Writing

See advisor for acceptable substitutions, such as (but not limited to):

CMAC 4073, Communication laws and ethics  
COMS 3243, Principles of Persuasion  
COMS 3203, Business and Professional Communication  
COMS 4243, Interpersonal Communication  
COMS 4253, Intercultural Communication  
COMS 4263, Organizational Communication  
COMS 4373, Conflict Resolution  
MDIA 3043 Reporting Images  
MDIA 3323 Media Analytics and Data Visualization  
MDIA 4323 Diversity and Media  
STCM 4023, Public Opinion, Propaganda and the Mass Media  
STCM 4603, Crisis Communication  
STCM 3043, Principles of Strategic Communication  
STCM 4073, Strategic Communication Law and Ethics  
STCM 4213, Social Media in Strategic Communications  
PRAD 4503, Seminar in Nonprofit Communication

Relevant BIO 404V Special Topics in Biology courses (e.g., Tropical Ecology) for any of your electives.  
Such courses can be found in Banner but are not listed in the catalog because they are typically offered only once  
Discuss with your advisor