



Degree Plan for Bachelor of Science Degree in Biology, Wildlife and Field Biology Option

Highly Recommended Courses:

BIO 1023 General Biology for Majors
BIO 1021 Introduction to Biology Laboratory

Biology Core Courses (26 hrs):

BIO 2104 General Botany
BIO 2114 General Zoology
Biology majors are required to enroll in and successfully complete botany (BIO2104) and zoology (BIO2114) within their first four semesters at HSU. Students must meet with their departmental advisor to determine the schedule appropriate for them.

BIO 3054 Genetics
BIO 3524 General Ecology
BIO 4074 Dendrology
BIO 4383 Wildlife Biology and Conservation
BIO 4393 Wildlife Management Techniques

Organismal Courses — Choose TWO (2) of the following – must include at least one animal course (8 hrs):

BIO 3294 Plant Taxonomy
BIO 3404 Herpetology
BIO 4034 Ornithology
BIO 4164 Entomology
BIO 4344 Phycology
BIO 4354 Mammalogy
BIO 4224 Ichthyology

Field Ecology — Choose ONE (1) of the following (4 hrs):

BIO 3494 Biogeography
BIO 4504 Behavioral Ecology
BIO 4044 Neotropical Ecology
BIO 4204 Aquatic Ecology
BIO 4324 Tropical Marine Biology

Organismal Anatomy — Choose ONE (1) of the following (4 hrs):

BIO 3244 Comparative Morphology and Evolution of Plants
BIO 3084 Comparative Anatomy and Evolution of Vertebrates

Electives — Choose ONE (1) of the following if not used above to fill another requirement (4 hrs):

BIO 3294 Plant Taxonomy
BIO 4344 Phycology
BIO 3404 Herpetology
BIO 2094 Microbiology
BIO 3494 Biogeography
BIO 3244 Comparative Morphology and Evolution of Plants
BIO 3084 Comparative Anatomy and Evolution of Vertebrates
BIO 3544, 3554 Human A&P (both required to count as 1 elective)
BIO 3304 Plant Physiology
BIO 3314 Animal Physiology
BIO 4074 Dendrology
BIO 4164 Entomology
BIO 4034 Ornithology
BIO 4354 Mammalogy
BIO 4224 Ichthyology
BIO 4344 Phycology
BIO 4504 Behavioral Ecology
BIO 4044 Neotropical Ecology
BIO 4204 Aquatic Ecology
BIO 4324 Tropical Marine Biology

Additional requirements:

Chemical Sciences (8 hrs):

CHM 1034 General Chemistry for Non-Majors
CHM 1044 General Organic and Biochemistry

Note: other higher level CHM course(s) accepted

Physics and Quantitative Sciences (12-14 hrs):

MTH 1243 College Algebra or MTH 1273 Pre-calculus Mathematics
STA 2054 Applied Biostatistics or STA 2323 Statistical Methods
PHS 1053 Earth Systems and the Environment

And choose ONE (1) additional course from MTH (higher than MTH 1243), STA (higher than STA 2054 or STA 2323), PHY (physics), or PHS (physical science)

Total hours required for a major in biology, wildlife and field biology option:.....66-69

Biology Courses: 46 hours

Physical Science and Mathematics Courses: 20-23 hours

Students must have a “C” grade or better in all courses in the major field and also in the courses listed as “additional requirements.”

The biology department highly recommends that students achieve competence in the use of computers for word processing, graph and spreadsheet construction, and PowerPoint presentations before enrolling in

upper-level courses. Students should consider enrolling in Introduction to Computers (CSC 2003) if their background in computer use is weak.

DEGREE PLAN
Bachelor of Science in Biology, Wildlife and Field Biology, 2019/2020 version

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall	Hrs.	Spring	Hrs.	Fall	Hrs.	Spring	Hrs.
Gen. Bio. Maj./lab	3 or 4	Botany or Zoology	4	Zoology or Botany	4	Biology Core	4
Gen Chem. I	4	Coll. Algeb./Pre-cal. Math	3	Organismal Course	3 or 4	Organismal Course	3 or 4
Hender. Seminar	1	Gen Chem. II	4	Stud. Lit./World Lit.	3	US History./Am.Nat.Gov.	3
English A	3	English B	3	Social Sci./Elective	3	Humanities	3
World Civ.	3			Stat. Methd./Appl. Biost.	3 or 4	Oral Comm.	3
Life Fitness or PE	1						
Total Hours	15 or 16	Total Hours	14	Total Hours	16 to 18	Total Hours	16 or 17
Junior				Senior			
Fall	Hrs.	Spring	Hrs.	Fall	Hrs.	Spring	Hrs.
Dendrology	4	Biology Core	4	Organismal Anatomy	4	Field Ecology	3 or 4
Earth Sys. Envir.	4	Biology Elective	3 or 4	Wildlife Bio.	3	Wild. Mangmt. Tech.	3
Gen Ed Core Elective	3	Phys./Quan. Sci.	4	Non-West. Culture	3	Gen Ed Core Elective	3 or 4
Gen Ed Core Elective	3 or 4	Gen Ed Core Elective	3 or 4	Writing Course	3		
Total Hours	14 to 15	Total Hours	14 to 16	Total Hours	13	Total Hours	9 to 11

120 hours are required for graduation.

Note: Two writing (WI) intensive courses are required.

42 upper-level (junior/senior) hours are required.

At least one WI course must be in biology.

Degree plan includes some optional, but highly recommended courses. Please consult with your departmental advisor for additional details or if you have questions.

Students interested in particular graduate programs should consult closely with their advisors, as requirements may be different.

If students plan on minoring in chemistry, one additional semester of chemistry will be required. See catalog.

Note: Courses may be taken in semesters other than those shown above. Consult with your advisor for alternative scheduling. See information on reverse side of this sheet for a full list of core courses.

- It is the responsibility of the student to be familiar with all degree requirements as listed in the University Catalog.
- Students shall verify that they have completed all the appropriate prerequisites before enrolling in classes.
- Students shall complete an application for graduation prior no later than the semester preceding their anticipated graduation date.

Student signature _____ Date _____

Advisor signature _____ Date _____

Revision: 12/2019