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

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
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<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
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<td>Hrs.</td>
<td>Hrs.</td>
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<tr>
<td>Gen. Bio. Maj./lab</td>
<td>Botany or Zoology</td>
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<td>3 or 4</td>
<td>4</td>
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<tr>
<td>Gen Chem. I</td>
<td>Coll. Algeb./Pre-cal.</td>
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<tr>
<td>4</td>
<td>3</td>
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<tr>
<td>Hender. Seminar</td>
<td>Math</td>
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<td>Life Fitness or PE</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15 or 16</strong></td>
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<td><strong>Junior</strong></td>
<td><strong>Senior</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>Hrs.</td>
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<tr>
<td>Dendrology</td>
<td>Biology Core</td>
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<td>4</td>
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<td>Gen Ed Core</td>
<td>Phys./Quan. Sci.</td>
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<td>Elective</td>
<td>4</td>
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<td>Gen Ed Core</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>14 to 15</strong></td>
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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.

Student signature _________________________________ Date _____________________
Advisor signature _________________________________ Date _____________________

Revision: 12/2019