Degree Plan for
Bachelor of Arts Degree in Biology

Highly Recommended Courses:

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

Core Requirements (20 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 4214 Cell Biology

Anatomy and Evolution: Choose ONE (1) course from the following (4 hrs):

- BIO 3084 Comparative Anatomy and Evolution of Vertebrates
- BIO 3244 Comparative Morphology and Evolution of Plants
- BIO 4194 Animal Histology

Physiology: Choose ONE (1) course from the following (4 hrs):

- BIO 3304 Plant Physiology
- BIO 3314 Animal Physiology
- *BIO 3544, 3554 Human Anatomy and Physiology I and II
  *Two semesters of Human Anatomy and Physiology are required to satisfy the physiology and anatomy requirement.

Organismal Biology: Choose ONE (1) course from the following (4 hrs):

- BIO 2094 Microbiology
- BIO 3294 Plant Taxonomy
- BIO 3404 Herpetology
- BIO 4074 Dendrology
- BIO 4034 Ornithology
- BIO 4164 Entomology
- BIO 4344 Phycology
- BIO 4354 Mammalogy
- BIO 4224 Ichthyology
Environmental and Systems Biology: Choose ONE (1) course from the following (3-4 hrs):

BIO 4414  Infection and Immunity
BIO 3494  Biogeography
BIO 4504  Behavioral Ecology
BIO 4204  Aquatic Ecology
BIO 4044  Neotropical Ecology
BIO 4324  Tropical Marine Biology
BIO 4563  Biology of Cancer
CHM 3193  Environmental Chemistry

Additional requirements:

CHM 1034, 1044  General Chemistry I and II
CHM 1014, 1024  University Chemistry I and II
MTH 1243, STA 2054 or STA 2323  College Algebra and Applied Biostatistics or Statistical Methods or more advanced courses, with approval.
PHY 2034, 2044  General Physics I and II

Total hours required for a major in biology, Bachelor of Arts degree: .................................................................65-67 hours
  Biology Courses: 35-36 hours
  Physical Science and Mathematics Courses: 30-31 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 Arts in Biology, 2019/2020 version

## Degree Completion Plan Beginning in Fall Semester

<table>
<thead>
<tr>
<th>Freshman</th>
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<th>Sophomore</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Hrs.</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Hrs.</strong></td>
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<tr>
<td>Gen. Biol. Maj./lab</td>
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<td>Botany or Zoology</td>
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<tr>
<td>Gen Chem. I/Soc. Sci.</td>
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<td>College Algebra</td>
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<td>Hender. Seminar</td>
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<td>Gen Chem. II/Elective</td>
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<td>English A</td>
<td>3</td>
<td>English B</td>
<td>3</td>
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<tr>
<td>World Civ.</td>
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<td></td>
<td></td>
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<tr>
<td>Life Fitness or PE</td>
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<tr>
<td>Total Hours</td>
<td>14 to 15</td>
<td>Total Hours</td>
<td>13 or 14</td>
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<table>
<thead>
<tr>
<th>Junior</th>
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<th>Senior</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Hrs.</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Hrs.</strong></td>
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<td>Biology Core</td>
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<td>Biology Core</td>
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<tr>
<td>Physics I</td>
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<td>Physiology</td>
<td>4</td>
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<tr>
<td>Humanities</td>
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<td>Physics II</td>
<td>4</td>
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<tr>
<td>Core elective/Foreign lang.</td>
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<td>Core elective/Foreign lang.</td>
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</tr>
<tr>
<td>Total Hours</td>
<td>14</td>
<td>Total Hours</td>
<td>15</td>
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</tbody>
</table>

120 hours are required for graduation.

Note: Two writing (WI) intensive courses 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.

6-12 hours of foreign language is required for the bachelor of arts degree. Students must complete six hours at the intermediate level or above of a principle modern foreign language. Credit in two or more languages will not satisfy the requirement. If foreign language is used as a minor, 15 semester hours of credit are required.

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

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 no later than the semester preceding their anticipated graduation date.

Student signature _________________________________ Date _____________________

Advisor signature _________________________________ Date _____________________

Revision: 12/2019