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| **Catalog Year 2019-2020**  B.A. Biology  Natural History | ***(For internal use only)***  *No change*  *UCC proposal* |

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is an efficient strategy only. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Elective, and university requirements (see pg.2) are based on Catalog Year.

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| **Course Subject and Title** | **Cr.** | **Min.**  **Grade** | **\*GE,**  **UU or UM** | **\*\*Sem. Offered** | **Prerequisite** | **Co Requisite** | | | | |
| Semester One | | | | | | | | | | |
| GE Objective 1: ENGL 1101 Writing and Rhetoric I | 3 | C- | GE | F, S, Su | Appropriate placement score |  | | | | |
| GE Objective 3: MATH 1160 | 3 |  | GE | F, S, SU | MATH 1143 or equivalent |  | | | | |
| or MATH 1153 Statistics |  | Math 1108 or equivalent |  | | | | |
| GE Objective 5: BIOL 1101, 1101L Biology I & Lab | 4 |  | GE | F, S, SU | MATH 1108 | MATH 1108 | | | | |
| Free Electives | 5 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Two | | | | | | | | | | |
| GE Objective 1: ENGL 1102 Writing and Rhetoric II | 3 | C- | GE | F, S, Su | ENGL 1101 or equivalent |  | | | | |
| BIOL 1102 & 1102L Biology II & Lab | 4 |  |  | F, S | BIOL 1101 |  | | | | |
| GE Objective 4: | 3 |  | GE | F, S, SU |  |  | | | | |
| GE Objective 6: | 3 |  | GE | F, S, SU |  |  | | | | |
| Free Electives | 2 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Three | | | | | | | | | | |
| BIOL 2209 & 2209L General Ecology & Lab | 4 |  |  | F, S | BIOL 1101 & 1101L and BIOL 1102 & 1102L | | |  | | |
| GE Objective 5: CHEM 1111 & 1111L General Chemistry & Lab | 5 |  | GE | F, S, SU | MATH 1143 or 1147 or equivalent | | |  | | |
| GE Objective 2: COMM 1101 Principles of Speech | 3 |  | GE | F, S, SU |  |  | | | | |
| Free Electives | 3 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Four |  |  |  |  |  |  | | | | |
| BIOL 2206 & 2207 Cell Biology & Lab | 4 |  |  | F, S | BIOL 1101, 1102, CHEM 1111 &1111L | | CHEM 1112, 1112L | | | |
| Plant Biology course | 3-4 |  |  |  |  |  | | | | |
| GE Objective 4: | 3 |  | GE | F, S, SU |  |  | | | | |
| CHEM 1112 & 1112L General Chemistry II | 4 |  |  | F, S, SU | CHEM 1111 & 1111L and MATH 1143 or 1147 | | | |  | |
| Free Electives | 0-1 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Five |  |  |  |  |  |  | | | | |
| BIOL 3358 Genetics | 3 |  | UM | F, S | BIOL 2206 or 2235 |  | | | | |
| Biology Electives | 3 |  |  |  |  |  | | | | |
| Biology Electives | 3 |  |  |  |  |  | | | | |
| Animal Biology (Upper Division) | 3-4 |  | UM |  |  |  | | | | |
| Free Electives | 2-3 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Six |  |  |  |  |  |  | | | | |
| BIOL 4417 Organic Evolution | 3 |  | UM | F, S | BIOL 3358 & 2209 |  | | | | |
| Animal Biology (Upper Division) | 4 |  | UM |  |  |  | | | | |
| BIOL 4491 Seminar | 1 |  | UM | F, S, SU | Senior standing, or permission of department | | | | |  |
| Upper Division Free Electives | 5-6 |  | UU |  |  |  | | | | |
| Free Electives | 1-2 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Seven |  |  |  |  |  |  | | | | |
| Plant Biology course (Upper Division) | 4 |  | UM |  |  |  | | | | |
| Biology Electives | 2-4 |  |  |  |  |  | | | | |
| GE Objective 6: | 3 |  | GE | F, S, SU |  |  | | | | |
| GE Objective 9: | 3 |  | GE | F, S, SU |  |  | | | | |
| Free Electives | 1-3 |  |  |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| Semester Eight |  |  |  |  |  |  | | | | |
| BIOL 4492 Seminar | 1 |  | UM | F, S, SU | Senior standing or permission of department | | | | |  |
| GE Objective 7 or 8 | 3 |  | GE | F, S, SU |  |  | | | | |
| Upper Division Free Electives | 11 |  | UU |  |  |  | | | | |
| Total | 15 |  |  |  |  |  | | | | |
| \*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major  \*\*See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.) | | | | | | | | | | |

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| B.A. Biology, Natural History | | | | | | | | |
| **2019-2020 Major Requirements** | **CR** | **2018-2019 GENERAL EDUCATION OBJECTIVES**  **Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | | | | | | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **46-50** | 1. Written English (6 cr. min) ENGL 1101 | | | | | | 3 |
| **Core Requirements** | **24** | ENGL 1102 | | | | | | 3 |
| BIOL 1101 & 1101L Biology I & Lab (Counted in GE Objective 5) | | 2. Oral Communication (3 cr. min) COMM 1101 | | | | | | 3 |
| BIOL 1102 & 1102L Biology II & Lab | 4 | 3. Mathematics (3 cr. min) MATH 1160 or MATH 1153 | | | | | | 3 |
| BIOL 2206, 2207 Cell Biology & Lab | 4 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** | | | | | | |
| BIOL 2209 & 2209L General Ecology & Lab | 4 |  | | | | | |  |
| BIOL 3358 Genetics | 3 |  | | | | | |  |
| BIOL 4417 Organic Evolution | 3 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** | | | | | | |
| BIOL 4491 and BIOL 4492 Seminar | 2 | BIOL 1101 & 1101L Biology I & Lab | | | | | | 4 |
| MATH 1160 Applied Calculus or MATH 1153 (Counted in GE Objective 3) | | CHEM 1111 & 1111L General Chemistry I & Lab | | | | | | 5 |
| CHEM 1111 & 1111L General Chem I & Lab (Counted in GE Objective 5) | |  | | | | | |  |
| CHEM 1112 & 1112L General Chemistry II & Lab | 4 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** | | | | | | |
| **Diversity, Ecology, Evolution Courses** |  |  | | | | | |  |
| **Animal Biology (2 courses) Upper Division** | **7-8** |  | | | | | |  |
| BIOL 4441 & 4441L Mammology & Lab | 4 | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** | | | | | | |
| BIOL 3304 & 3304L Comparative Vert Morph & Phys & Lab | 5 | 7. Critical Thinking | |  | | | |  |
| BIOL 3310 & 3310L Invertebrate Zoology & Lab | 4 | 8. Information Literacy | |
| BIOL 4423 General Parasitology | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** | | | | | | |
| BIOL 4427 & 4427L Ichthyology & Lab | 4 |  | | | | | |  |
| BIOL 4438 Ornithology | 4 | General Education Elective to reach 36 cr. min. **(if necessary)** | | | | | | |
| BIOL 4459 & 4459L Fish Ecology & Lab | 4 |  | | | | | |  |
| BIOL 3310 & 3310L Invertebrate Zoology & Lab | 4 |  | | | | | |  |
| BIOL 4426 & 4426L Herpetology & Lab | 4 | Total GE | | | | | | 39 |
| BIOL 4431 & 4431L General Entomology & Lab | 4 | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  *http://coursecat.isu.edu/undergraduate/programs/* | | | | | | |
| BIOL 4495 Animal Behavior | 4 |
| BIOL 4462 & 4462L Freshwater Ecology & Lab | 4 |  | | | | |  | |
| **Plant Biology (2 courses with at least 4 cr. upper division)** | **7-8** | **MAP Credit Summary** | | | | | **CR** | |
| BIOL 2213 Fall Flora | 2 | Major | | | | | 46-50 | |
| BIOL 4412 & 4412L Systematic Botany | 4 | General Education | | | | | 39 | |
| BIOL 4442 Plant-Animal Interactions | 3 | Upper Division Free Electives to reach 36 credits | | | | | 16-17 | |
| BIOL 2214 Spring Flora | 2 | Free Electives to reach 120 credits | | | | | 14-19 | |
| BIOL 4404 Plant Physiology | 3 | TOTAL | | | | | 120 | |
| BIOL 4408 & 4408L Plant Ecology | 4 |  | | | | | | |
| **Biology Electives (3 courses)** | **8 - 10** | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | | |
| Consult with Biology advisor for appropriate Biology electives. |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | | | x | | | |
|  |  | Minimum 15 cr. Upper Division in Major (0 cr. Associate) | | | x | | | |
|  |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) | | |  | x | | |
|  |  | Minimum of 120 cr. Total (60 cr. Associate) | | |  | x | | |
|  |  |  | | | | | | |
|  |  | ***MAP Completion Status (for internal use only)*** | | | | | | |
| **Advising Notes** | |  | *Date* | | | | | |
| GEOL 1100, Dynamic Earth; GEOL 1101 Physical Geology; | | *Department:* |  | | | | | |
| HIST/MUSE 4411 Introduction to Museum Studies; | | *CAA or COT:* |  | | | | | |
| PE 3386 Outdoor Leadership; PE 4440 Survey of Outdoor Education Lit.; | | *Registrar:* |  | | | | | |
| PE 4445 Methods of Teaching Outdoor Activities and Practicum | | **Complete College American Momentum Year**  **Math and English course in first year-Specific GE MATH course identified**  **9 credits in the Major area in first year**  **15 credits each semester (or 30 in academic year)**  **Milestone courses** | | | | | | |
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Form Revised 9.10.2019