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| **Catalog Year 2019-2020**  B.A., Earth & Environmental Systems  Environmental Systems Track | ***(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 1147 Pre-calc (or MATH 1143 and 1144) | 5 | C- | GE | F, S, Su | Appropriate Placement Score |  | |
| GE Objective 5: BIOL 1101 & BIOL 11101 L General Biology I | 4 |  | GE | F, S, Su | MATH 1108/appropriate score | MATH 1108/score, BIOL 1101L | |
| GE Objective 7/8: GEOL 1107 Real Monsters | 3 |  | GE | F, S |  |  | |
| Total | 15 |  |  |  |  |  | |
| Semester Two | | | | | | | |
| GE Objective 1: ENGL 1102 Writing and Rhetoric II | 3 | C- | GE | F, S, Su | ENGL 1101 or equivalent |  | |
| GE Objective 5: CHEM 1111 and 1111L General Chemistry I | 5 |  | GE | F, S, Su | MATH 1143 or 1147 | CHEM 1111L | |
| BIOL 1102 & BIOL 1102L General Biology II | 4 |  |  | F, S | BIOL 1101 | BIOL 1102L | |
| GE Objective 4 | 3 |  | GE | F, S, Su |  |  | |
| Total | 15 |  |  |  |  |  | |
| Semester Three | | | | | | | |
| GE Objective 2: COMM 1101 Principles of Speech | 3 |  | GE | F, S, Su |  |  | |
| GEOL 2204 Fluid Earth | 4 |  |  | F |  |  | |
| GEOL 2292 Geosciences Career Seminar | 1 |  |  | F |  |  | |
| GE Objective 6: ECON 2201 Principles of Macroeconomics | 3 |  | GE | F, S, Su |  |  | |
| MATH 1160, MATH 1170 or Free Elective | 3-4 |  |  |  |  |  | |
| Free Elective | 0-1 |  |  |  |  |  | |
| Total | 15 |  |  |  |  |  | |
| Semester Four |  |  |  |  |  |  | |
| GEOL 2205 Solid Earth | 4 |  |  | S |  |  | |
| BIOL 2209 and BIOL 2209L General Ecology and Lab | 4 |  |  | F, S | BIOL 1101 and BIOL 1102 | BIOL 2209L | |
| ECON 2202 Principles of Microeconomics | 3 |  |  | F,S, Su |  |  | |
| GE Objective 6 | 3 |  | GE | F, S, Su |  |  | |
| Total | 14 |  |  |  |  |  | |
| Semester Five |  |  |  |  |  |  | |
| GEOL 4403 and GEOL 4403 Lab Principles of GIS | 3 |  | UM | F, S |  | GEOL 4403L | |
| Group A: Select on course | 3 |  | Possible UM | F, S | See Undergraduate Catalog |  | |
| GEOL 3310 Geologic Field Methods | 3 |  | UM | F | GEOL 2205 |  | |
| POLS 4455 Environmental Politics and Policy | 3 |  | UM | D |  |  | |
| MATH 1153 Statistical Reasoning or  MATH 3350 Statistical Methods | 3 |  | Possible UM | F, S | MATH 1108 or  MATH 1160 or MATH 1170 |  | |
| Total | 15 |  |  |  |  |  | |
| Semester Six |  |  |  |  |  |  | |
| GEOL 3315 Evolution of Earth’s Surface | 4 |  | UM | S | GEOL 2205 |  | |
| Group B: Select one course | 3 |  | UM | F,S,D,R | See Undergraduate Catalog |  | |
| PHIL 4455 Environmental Ethics\*\* | 3 |  | UM | R1 |  |  | |
| GE Objective 4 | 3 |  | GE | F, S, Su |  |  | |
| GEOL 4410 Science in American Society | 2 |  | UM | AF | Junior standing and Instructor permission | |  |
|  | 15 |  |  |  |  |  | |
| Semester Seven |  |  |  |  |  |  | |
| HIST 4430 Global Environmental History | 3 |  | UM | R2 |  |  | |
| Group B: Select one course | 3 |  | UM | F,S,D,R | See Undergraduate Catalog |  | |
| GE Objective 9 | 3 |  | GE | F,S, Su |  |  | |
| Free Electives | 6 |  |  | F,S, Su |  |  | |
| Total | 15 |  |  |  |  |  | |
| Semester Eight |  |  |  |  |  |  | |
| GEOL 4492 Earth and Environmental Systems Seminar | 1 |  | UM | S | Junior or senior standing |  | |
| Group B: Select one course | 3 |  | UM | F,S,D,R | See Undergraduate Catalog |  | |
| Free Upper Division Electives | 3 |  | UU | F,S, Su |  |  | |
| Free Electives | 9 |  |  | F,S, Su |  |  | |
| Total | 16 |  |  |  |  |  | |
| \*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. Earth and Environmental Systems | | | | | | | | |
| **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** | **58** | 1. Written English (6 cr. min) ENGL 1101 | | | | | | 3 |
| **Core Courses** |  | ENGL 1102 | | | | | | 3 |
| GEOL 1107 Real Monsters (included in General Education) | | 2. Oral Communication (3 cr. min) COMM 1101 | | | | | | 3 |
| GEOL 2204 Fluid Earth | 4 | 3. Mathematics (3 cr. min) MATH 1147 | | | | | | 5 |
| GEOL 2205 Solid Earth | 4 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** | | | | | | |
| GEOL 2292 Geosciences Career Seminar | 1 |  | | | | | |  |
| GEOL 3315 Evolution of the Earth’s Surface | 4 |  | | | | | |  |
| GEOL 4403 Principles of Geographic Information Systems | 3 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** | | | | | | |
| GEOL 4492 Earth and Environmental Systems Seminar | 1 | BIOL 1101 and BIOL 1101 Lab | | | | | | 4 |
| BIOL 1101 and BIOL 1101L General Biology I and Lab | | CHEM 1111 & 1111L General Chemistry I and Lab | | | | | | 5 |
| BIOL 1102 and BIOL 1102L General Biology II and Lab | 4 |  | | | | | |  |
| BIOL 2209 and BIOL 2209L General Ecology and Lab | 4 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** | | | | | | |
| CHEM 1111 & 1111L General Chemistry I and Lab (included in General Ed) | | ECON 2201 Principles of Macroeconomics | | | | | | 3 |
| MATH 1147 (or MATH 1143 & 1144) Precalculus (included in General Ed) | |  | | | | | |  |
| **Environmental Systems Track** | | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** | | | | | | |
| ECON 2201 Principles of Macroeconomics (included in General Education) | | 7. Critical Thinking | | GEOL 1107 Real Monsters | | | | 3 |
| ECON 2202 Principles of Microeconomics | 3 | 8. Information Literacy | |
| GEOL 3310 Geologic Field Methods | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** | | | | | | |
| GEOL 4410 Science in American Society | 3 |  | | | | | |  |
| HIST 4430 Global Environmental History | 3 | General Education Elective to reach 36 cr. min. **(if necessary)** | | | | | | |
| MATH 1153 Statistical Reasoning | 3 |  | | | | | |  |
| or MATH 3350 Statistical Methods |  | | | | | |  |
| PHIL 4455 Environmental Ethics | 3 | Total GE | | | | | | 41 |
| or PHIL 2250 Contemporary Moral Problems | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  *http://coursecat.isu.edu/undergraduate/programs/* | | | | | | |
| POLS 4455 Environmental Politics and Policy | 3 |
| **Group A: Select One methods course from the following** | |  | | | | |  | |
| HIST 2291 Historian’s Craft | 3 | **MAP Credit Summary** | | | | | **CR** | |
| POLS 4453 Public Policy Analysis | 3 | Major | | | | | 58 | |
| SOC 3308 Sociological Methods and Social Work Research | 3 | General Education | | | | | 41 | |
| **Group B: Select Three Approved Elective( or other approved course)** | | Upper Division Free Electives to reach 36 credits | | | | | 0 | |
| GEOL/HIST 4471 Historical Geography of Idaho | 3 | Free Electives to reach 120 credits | | | | | 21 | |
| GLBL 3379 Environment and Geography | 3 | TOTAL | | | | | 120 | |
| GLBL 4466 Cultural Geography | 3 |  | | | | | | |
| GLBL 4480 International Parks and Protected Areas | 3 | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | | |
| HIST 4432 US Environmental History | 3 | Minimum 36 cr. General Education Objectives (15 cr. AAS) | | | x | | | |
| POLS 2221 Introduction to International Relations | 3 | Minimum 15 cr. Upper Division in Major (0 cr. Associate) | | | x | | | |
| POLS 4408 Urban Spaces | 3 | Minimum 36 cr. Upper Division Overall (0 cr. Associate) | | |  | x | | |
| POLS 4409 Community Planning | 3 | Minimum of 120 cr. Total (60 cr. Associate) | | |  | x | | |
| POLS 4453 Public Policy Analysis | 3 |  | | | | | | |
| POLS 4466 Public Lands Policy | 3 | ***MAP Completion Status (for internal use only)*** | | | | | | |
| SOC 3335 Environmental Sociology | 3 |  | *Date* | | | | | |
| SOC 4491 Topics in Sociology | 3 |  |  | | | | | |
|  |  | *CAA or COT:* |  | | | | | |
| **Advising Notes** | |  |  | | | | | |
| **Additional Recommended courses:** | | **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** | | | | | | |
| ENGL 3307 Professional and Technical Writing | |
| PHYS 1111/ 1113 Gen Physics/ Lab or PHYS 2211/2213 Engin Phys/Lab | |
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Form Revised 9.10.2019