

Catalog Year 2017-2018

B.S. Geology

A Major Academic Plan (MAP) illustrates one way to complete a degree in a recommended number of semesters. Below is an example of an efficient and recommended plan, but actual plans will vary by individual student needs. Program requirements are based on Catalog Year. See page two for a detailed summary of Major, General Education, Elective, and university requirements.

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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 English Composition | 3 | C- | GE | F,S,Su | Appropriate placement score |  |
| GE Objective 5: GEOL 1100 Dynamic Earth **OR** GEOL 1101 Physical Geology (lecture) | 3 | C | GE  | F,S,ASu |  |  |
| GEOL 1110 Physical Geol. for Scientists Lab | 1 |  |  | F,S |  |  |
| GE Objective 3: MATH 1170 | 4 | C- | GE |  | MATH 1147 or equivalent  |  |
| GE Objective 4 | 3 |  | GE  | F,S,Su |  |  |
| Free Electives  | 1 |  |  |  |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Two |
| GE Objective 1: ENGL 1102 Critical Reading and Writing | 3 | C- | GE | F,S | ENGL 1101 or equivalent |  |
| GE Objective 5: CHEM 1111 & 1111L General Chemistry I | 5 |  | GE | F,S,Su | MATH 1143 or equivalent |  |
| MATH 1175 Calculus II **OR** MATH 3350 Statistical Methods | 4 or 3 |  |  | F,S,Su | MATH 1170 |  |
| GEOL 2210 Earth in Space & Time | 3 |  |  | F,S | GEOL 1100 or 1101, GEOL 1110 | GEOL 1110 |
| Free Electives | 0 or 1 |  |  |  |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Three |
| PHYS 1111 General Physics I **OR** PHYS 2211 Engr. Physics I | 3 or 4 |  |  | F/F,S | MATH 1143 OR MATH 1175  |  |
| CHEM 1112 & 1112L General Chemistry II | 4 |  |  | F, S,Su | CHEM 1111 & 1111L and MATH 1143 or equivalent |  |
| GEOL 2202 Historical Geology | 3 |  |  | F | GEOL 1100 or GEOL 1101 |  |
| GEOL 3313 Earth Materials I | 3 |  | UM | F | GEOL 1110, CHEM 1111 & 1111L | (CHEM 1111 & 1111L) |
| Free Electives | 1 or 2 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Four |  |  |  |  |  |  |
| PHYS 1112 General Physics II OR PHYS 2212 Engr. Physics II | 3 or 4 |  |  | S/F,S | PHYS 1111 & MATH 1143 OR PHYS 2211  |  |
| GEOL 3314 Earth Materials II | 3 |  | UM | S | GEOL 2210 & GEOL 3313 |  |
| GE Objective 2:Principles of Speech | 3 |  | GE | F,S,Su |  |  |
| GE Objective 4 | 3 |  | GE | F,S,Su |  |  |
| Free Electives | 2 or 3 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Five |  |  |  |  |  |  |
| GEOL 4452 Sedimentation-Stratigraphy & GEOL 4452L Lab | 4 |  | UM | F | GEOL 2210 & ENGL 1102, CHEM 1111/L | (CHEM 1111 &1111L) |
| GEOL 4403 Principles of GIS & GEOL 4403 L Lab | 3 |  | UM | F,S |  |  |
| GE Objective 6 | 3 |  | GE | F,S,Su |  |  |
| GEOL Upper Division Electives\* | 3 |  | UM | F,S,Su | See catalog |  |
| Free Electives | 2 |  |  |  |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Six |  |  |  |  |  |  |
| GEOL 3315 Evolution of Earth’s Surface  | 4 |  | UM | S | GEOL 1100 or GEOL 1101 & GEOL 1110 |  |
| GEOL 4421 Structural Geology | 4 |  | UM | S | MATH 1147 or equivalent, GEOL 4452 |  |
| GE Objective 6 | 3 |  | GE | F.S,Su |  |  |
| Free Electives | 4 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Summer Semester between 3rd and 4th year |  |  |  |  |  |  |
| GEOL 4450 Field Geology | 6 |  | UM | Su | GEOL 3314 (recommend) or GEOL 4420; GEOL 4421 & 4452 |  |
|  Total | 6 |  |  |  |  |  |
| Semester Seven |  |  |  |  |  |  |
| GEOL Upper Division Electives | 6 |  | UM | F,S,Su | See catalog |  |
| GE Objective 7 OR 8 | 3 |  | GE | F,S,Su |  |  |
| Free Electives | 6 |  |  | F,S,Su |  |  |
|  Total  | 15 |  |  |  |  |  |
| Semester Eight |   |  |  |  |  |  |
| GEOL Upper Division Electives | 4 |  | UM | F,S,Su | See catalog |  |
| GE Objective 9 | 3 |  | GE | F,S,Su |  |  |
| Free Electives | 2 |  |  | F,S,Su |  |  |
|  Total  | 9 |  |  |  |  |  |
| \*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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| **2017-2018 Major Requirements** | **CR** | **2017-2018 GENERAL EDUCATION OBJECTIVES****Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **60 - 63** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| MATH 1170 Calculus I (4 cr counted in Objective 3) |  ENGL 1102 | 3 |
| MATH 1175 Calculus II **OR** MATH 3350 Statistical Methods | 3 or 4 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| Either GEOL 1100 Dynamic Earth**OR** GEOL 1101 Physical Geology (3 cr counted in Objective 5) | 3. Mathematics (3 cr. min) MATH 1170 | 4 |
| 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** |
| GEOL 1110 Physical Geology for Scientists Lab  | 1 |  |  |
| CHEM 1111 & 1111L General Chemistry I & Lab (5 cr counted in Obj.5) |  |  |
| CHEM 1112 & 1112L General Chemistry II & Lab | 4 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| PHYS 1111 General Physics I **OR** PHYS 2211 Engr. Physics I | 3 or 4 | GEOL 1100 OR GEOL 1101 | 3 |
| PHYS 1112 General Physics II **OR** PHYS 2212 Engr. Physics II | 3 or 4 |  |  |
|   |  | CHEM 1111 & 1111L | 5 |
|  |  | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| GEOL 2202 Historical Geology | 3 |  |  |
| GEOL 2210 Earth in Space and Time | 3 |  |  |
| GEOL 3313 Earth Materials I | 3 | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** |
| GEOL 3314 Earth Materials II | 3 | 7. Critical Thinking |  |
| GEOL 3315 Evolution of Earth’s Surface | 4 | 8. Information Literacy  |
| GEOL 4403 & 4403 L Principles of GIS and Lab | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** |
| GEOL 4421 Structural Geology | 4 |  |  |
| GEOL 4450 Field Geology | 6 | General Education Elective to reach 36 cr. min. **(if necessary)** |
| GEOL 4452 Sedimentation-Stratigraphy | 4 |   |  |
| **Choose 5 additional upper division Geoscience courses** | 13 |  **Total GE** | **39** |
| **In consultation with Geology faculty advisor** |  | GE Objectives - Catalog Requirements: [2017-2018 General Education Requirements (PDF)](https://www.isu.edu/media/libraries/central-academic-advising/pdf-files/gened-requirements/2017-2018-General-Education-Requirements.pdf) |
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|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 60 - 63 |
|  |  | General Education  | 39 |
|  |  | Free Electives to reach 120 credits | 18 - 21 |
|  |  |  TOTAL | 120 |
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|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | yes |
|  |  | Minimum 16 cr. Upper Division in Major (0 cr. Associate) |  | yes |
|  |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) |  | yes |
|  |  | Minimum of 120 cr. Total (60 cr. Associate) |  | yes |
|  |  |  |  |
| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
| 37 required Geoscience credits plus 13 Upper Division Geoscience credits to equal at least 50 Geoscience credits. |  | *Date* |
| *Department:*  | 10.26.2017 mmc |
| *CAA or COT:* | 10.10.2017 jhsf  |
|  | *Registrar:*  |  |
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