

## USI - Department of Geology & Physics – Geology Degree Advising Form

Student Name: \_\_\_\_\_ Faculty Advisor: \_\_\_\_\_

### Geology Major Requirements: 2019-20 USI Bulletin with Core 39 – University Core Curriculum

The year of the bulletin (catalog) that a student uses to determine degree requirements is established by the year the geology major is declared by the student. The information below is current for the 2019-2020 Bulletin, and includes requirements for Core 39 – the new University Core Curriculum. Also, students must complete 39 credit hours of 300-400 level coursework and attain 120 total credit hours to graduate.

The geology degree program requires students to obtain a letter grade of C or better in all **required geology courses**. In the event of a poor or failing grade (D or F), you will not be allowed to progress to the next course in the major until a satisfactory grade (C or higher) has been earned. This requirement does NOT include geology electives or required supporting courses for the major, but students have to meet prerequisite requirements (e.g. earn a C or better in PHYS 175 to progress to PHYS 176).

#### Required Courses for Geology Major (35 credit hours)

Course	Crdt Hrs	Semester	Grade
GEOL 161 – Introduction to Geology <u>or</u>	4	_____	_____
GEOL 151 – Geology of National Parks	4	_____	_____
GEOL 162 – Historical Geology	4	_____	_____
GEOL 261 – Intermediate Geology	3	_____	_____
*GEOL 301 – Mineralogy	4	_____	_____
GEOL 302 – Igneous & Metamorphic Pet	4	_____	_____
GEOL 315 – Paleontology	4	_____	_____
GEOL 316 – Sedimentology & Stratigraphy	4	_____	_____
GEOL 345 – Structural Geology	4	_____	_____
GEOL 481 – Adv. Environmental Geology	4	_____	_____

\*must earn a C or better in CHEM 261 to enroll in GEOL 301

#### Geology Electives (at least 9 credit hours)

Course	Course # & Title	Crdt Hrs	Semester	Grade
Geology Elective 1	_____	_____	_____	_____
Geology Elective 2	_____	_____	_____	_____
Geology Elective 3	_____	_____	_____	_____

#### Required Supporting Courses for Geology Major (23 to 26 credit hours)

Course	Crdt Hrs	Semester	Grade
CHEM 261 - General Chemistry I	4	_____	_____
CHEM 262 - General Chemistry II	4	_____	_____
MATH 230 - Calculus I	4	_____	_____
PHYS 175 - General Physics I	4 or 5	_____	_____
PHYS 176 - General Physics II	4 or 5	_____	_____
Science Elective 1 (see list on third page)	3 or 4	_____	_____

## USI - Department of Geology & Physics – Geology Advising Form – Core 39

Student Name: \_\_\_\_\_ Faculty Advisor: \_\_\_\_\_

Category	Courses	Semester	Grade	Credit Hours	Credit hours Earned
Foundations: FYE	UNIV101	_____	_____	1	_____
Foundations: Mathematics	Satisfied in Major: MATH 230	_____	_____	4	_____
Foundations: Composition	ENG101 ENG202	_____	_____	6	_____
Foundations: Public Speech	CMST101 <b>or</b> CMST107	_____	_____	3	_____
Foundations: Health & Fitness	KIN192	_____	_____	1	_____
Ways of Knowing: SMI	CHEM262	_____	_____	4	_____
Ways of Knowing _____		_____	_____	3 to 4	_____
Ways of Knowing _____		_____	_____	3 to 4	_____
Ways of Knowing _____		_____	_____	3 to 4	_____
BS-Natural Science	Satisfied in Major: GEOL151 or GEOL161 PHYS175/PHYS175L	_____	_____	8	_____
BS-Social Science	ANTH121; ANTH235; ECON175; ECON208; ECON209; POLS102; POLS271; POLS281; PSY201; SOC121; SOC261; Note: Must have different prefix that courses satisfying Ways of Knowing	_____	_____	3	_____
BS-World Languages & Culture	ANTH111; ARTH 335; WLC155; GEOG330; HUM211; HUM212; HUM241; HUM242; Note: Must have different prefix that courses satisfying Ways of Knowing	_____	_____	3	_____
**Writing 1		_____	_____		_____
**Writing 2		_____	_____		_____
**Diversity		_____	_____		_____
**Global		_____	_____		_____

\* From supporting coursework for the major, students will satisfy the Scientific and Mathematical Ways of Knowing with CHEM 262. Students must select 3 of the 5 remaining Ways of Knowing categories.

\*\*Embedded experiences may be satisfied by courses completed from other areas of the core curriculum, or courses within the major requirements. ENG 201 must be completed prior to a student enrolling in Writing 1 (>200 level); Writing 2 must be completed at the 300- to 400-level.

**Regularly Offered Geology Electives**

- 390 Geological Field Excursion
- 402 Volcanology
- 407 Geomorphology
- 411 Geology of Soils
- 441 Hydrogeology
- 445 Plate Tectonics & Crustal Evolution
- 455 Global Quaternary Environmental Change
- 499 Independent Research

**Irregularly Offered Geology Electives**

- 341 Hydrology
- 351 Field Geology
- 414 Petroleum Geology
- 460 Internship
- 465 Introduction to GIS
- 470 Independent Study
- 475 Remote Sensing & image Analysis
- 480 Undergraduate Teaching in Geology
- 490 Special Topics in Geology

**The following courses are approved for science elective credit for the geology major:**

**Anthropology (ANTH)**

- 121 Intro to Archaeology
- 131 Intro to Physical Anthropology

**Astronomy (ASTR)**

- 201 General Astronomy

**Biology (BIOL)**

- 141 Principles of Biology
- 151 Botany
- 152 Zoology

**Chemistry (CHEM)**

- 321 Quantitative Analysis
- 341 Environmental Chemistry
- 353 Organic Chemistry I

**Physics (PHYS)**

- 361 Modern Physics
- 371 Analytical Mechanics

**Mathematics (MATH)**

- 241 Statistics
- 235 Calculus II
- 362 Linear Algebra

**Geography (GEOG)**

- 214 Meteorology
- 215 Climatology