### Geography-Earth Science (39+ Cr)

**Geoenvironmental Core (12 Cr)**
- ESS 355 Meteorology (if ESS111, see †)
- ESS 210 Phy. Geology (if ESS110, see †)
- GEO 224 Soils
- GEO 226 Hydrology
- GEO 391 Geography Seminar

**Geography Electives (6 Cr)**
- GEO 230 Economic Geography
- GEO 244 Land Use
- GEO 305 Geography of Europe
- GEO 308 Geography of Latin America
- GEO 310 Transportation Geography
- GEO 313 Geography of South-Southeast Asia
- GEO 314 Industrial Geography
- GEO 317 Geography of East Asia
- GEO 320 Historical Geography
- GEO 322 Urban Geography
- GEO 415 Regional Geographic Studies
- GEO 450 Geography-Geology Field Studies*  

**Geoenvironmental Complex Systems (9 Cr)**
- ESS 404 Applied Meteorology/Climatology
- ESS 413 Mineral and Rock Resources
- GEO 442 Environmental Geology
- GEO 490 Selected Topics
- GEO 301 Introduction to Biogeography
- GEO 402 Medical Geography
- GEO 404 Hydrogeology
- GEO 421 Environmental Law
- GEO 444 Environmental Land Use Planning
- GEO 446 Water Resource Management
- GEO 450 Geography-Geology Field Studies*
- GEO 490 Selected Topics

**Geoenvironmental Elective (3+ Cr)**
- ESS 212 Historical Geography
- ESS 214 Geology of National Parks
- ESS 220 Oceanography
- GEO 203 Climatology
- GEO 306 Geomorphology
- GEO 397 Intro to Research
- GEO 450 Geography-Geology Field Studies*
- GEO 490 Selected Topics

**Technique Electives (6+ Cr)**
- GEO 202 GIS I: Intro to GIS
- GEO 339 Remote Sensing
- GEO 352 Cartography
- GEO 363 GIS II: Intermediate GIS
- GEO 420 GIS III: Advanced GIS
- GEO 425 Image Processing
- GEO 440 Field Techniques
- GEO 441 Quantitative Methods

**Internship (3+ cr)**
- GEO 360 Internship (2.0 GPA, Junior status)

**Allied Sciences (10+Cr)**
- (R) Recommended courses

**Biology (6-7 Cr)**
- BIO 142 Intro to Ecology
- (R) BIO 208 Field Biology
- BIO 210 Field Zoology (162 req )
- (R) BIO 242 Ecology (162 req )
- BIO 442 Aquatic Ecology (162 req )
- (R) BIO 448 Field Botany and Plant Tax (162 req )

**Chemistry/Physics (4 Cr)**
- CHM 121 Chemical Bonding
- CHM 125 Lab IB Stoichiometry and Reactions (1)
- CHM 122 Chemical Dynamics
- CHM 126 Lab IIB Equilibrium and Instruments (1)
- (R) PHY 121 Intro Physics (3) + 123 Lab (1)

### General Education Requirements (45 CR)

Courses filled-in below are **DIRECTED general education classes that MUST be taken for the major.** All other general education courses can be chosen from the list on the back of this page.

#### Foundations (15 cr total)

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*One course in each area are required.

#### Interconnections (9 cr total)

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*At least 1 course each from D and G.

#### Citizenship (6 cr total)

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*1 course from two different categories.

#### Natural World (9cr total)

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* BIO 162 and CHM 105 required. Either CSC 103 or 180 also required.

#### Creativity (6 cr total)

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*A At least 1 L course.

*Only 3cr for category, 6cr total for major.
† If ESS111 taken, sub GEO203 or ESS404.
‡ If ESS110 taken, sub ESS212, GEO306 or ESS214.