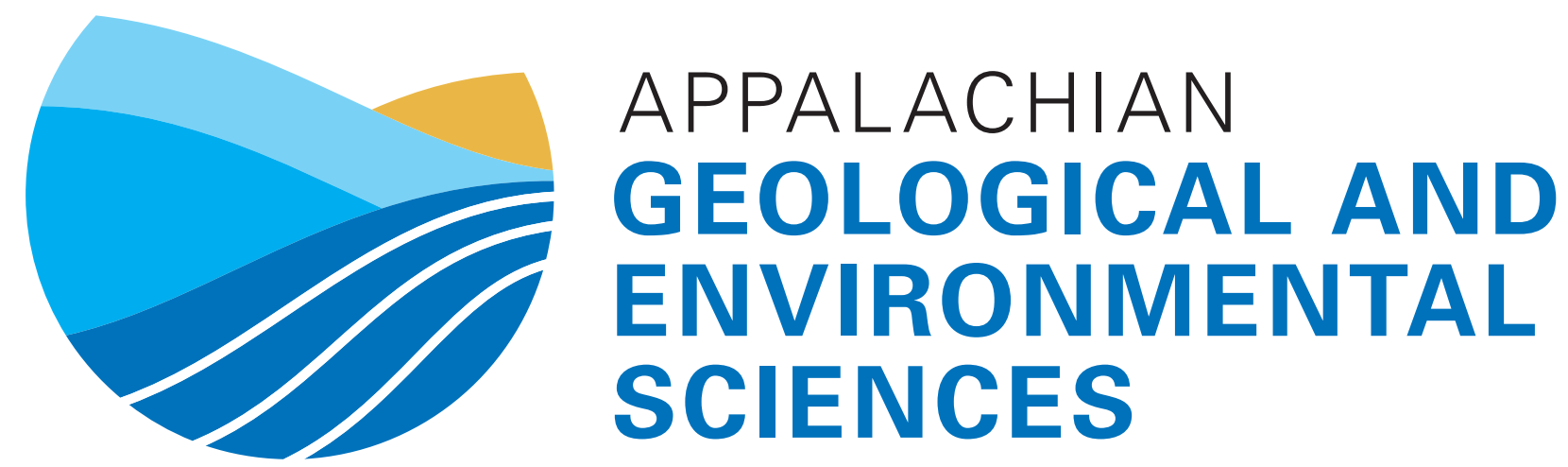


# GES Course Prerequisite Chart



starting 2024



## Introductory and Gen Ed classes

Gen Ed Science Inquiry

**GES 1101: Introduction to Physical Geology (F/S/sum)**  
**GES 1102: Introduction to Historical Geology (F/S/sum)**  
**GES 1103: Environmental Change, Hazards, and Resources (F/S/sum)**  
**GES 1104: Water: Mountains to Sea (F/S/sum)**  
**GES 1105: Oceanography (F/S/sum)**

**GES 1010 (F/S)**  
Introduction to Environmental Science

Gen Ed ILE/Historical/Social: Appalachian Mountains  
**GES 2301 (S)** - same as AS 2301  
**Energy Extraction in Appalachia**

Gen Ed ILE: How we know what we know about the past  
**GES 1842 (F)**  
**Dinosaurs: then and now**

## Just starting out in the major

RC 2001 (pre or coreq)

**GES 2750 (F/S)**  
Preparation for Careers in the Earth and Environmental Sciences

**GES 2751 (F/S)**  
Geology Field Methods I

**GES 2250 (F/S)**  
Evolution of the Earth

**GES 2752 (F/S)**  
Environmental Science Field Methods

permission of instructor  
**GES 2353 (F/S)**  
Public and K-12 Outreach in Geological and Environmental Sciences

permission of instructor  
**GES 2451 (S)**  
Geological Sample Preparation

permission of instructor  
**GES 2857 (sum)**  
Paleontology Field and Museum Methods

## Upper level classes

PHY 1103 or PHY 1150; MAT 1110

**GES/PHY 3160 (S)**  
Geophysics

GHY 2812

**GES 3140 (S)**  
Quantifying Environmental Change

PHY 1150, MAT 1110

**GES 3455 (F)**  
Quantitative Data Analysis for Earth and Environmental Scientists

CHE 1101/1110

**GES 3220 (F)**  
Fundamentals of Mineralogy

**GES 3715 (S)**  
Petrology and Petrography

**GES 3150 (F)**  
Structural Geology

**GES 3800 (S)**  
Stratigraphy and Sedimentology

**GES 3751 (sum)**  
Geology Field Methods II

permission of instructor  
**GES 3810 (sum)**  
The Reef Environment and Geology of Modern Carbonate Systems

**GES 3110 (F)**  
Environmental Regulation and Enforcement

six hours geology  
**GES 3703 (S)**  
Issues in Environmental Geology

CHE 1101/1110, and CHE 1102/1120  
**GES 3310 (F)**  
Global Biogeochemical Cycles

**GES 3025 (S)**  
Paleontology

**GES 3264 (F/S)**  
Paleontology Laboratory Techniques and Analytical Methods

four hours geology  
**GES 3680 (S)**  
Geoarchaeology

Pre: six hours geology  
**GES 3333 (F)**  
Geomorphology

depends on course  
**GES 3530-3549**  
Selected Topics

## Junior and Senior level classes

### Standard Courses

junior/senior standing; six hours geology

**GES 4705 (S)**  
Engineering Geology

junior/senior standing; STT 2810

**GES 4025 (F)**  
Introduction to Multivariate Data in Earth and Life Sciences

junior/senior standing; six hours geology

**GES 4751 (sum)**  
Field Methods III

**GES 4630 (F)**  
Hydrogeology

### Independent Research

senior standing, permission of instructor

**GES 4501 (F/S)**  
Senior Research

GES 4501, senior standing, permission of instructor

**GES 4510 (F/S)**  
Honors Thesis

### Internships

junior standing, permission of chair

**GES 4900 (sum)**  
Internship in Environmental Science

### Capstone Seminars

GLY majors only, final semester of senior year

**GES 4210 (F/S)**  
Geology Seminar

ENV majors only, final semester of senior year

**GES 4105 (F/S)**  
Analysis and Implications of Environmental Issues