

Geoscience Online Learning Initiative

The Geoscience Online Learning Initiative (GOLI) is an initiative by the American Geosciences Institute, started in cooperation with the [American Institute of Professional Geologists](#), to provide a platform for asynchronous, life-long learning and continuing education opportunities in the geosciences. The long-term vision for GOLI is to provide a platform for geoscience societies to host asynchronous learning modules for use in both professional continuing education and to help students be better prepared for entering the geoscience workforce. AGI is interested in providing this platform with the hope that Member Societies will create a transparent marketplace for learning opportunities and CEUs/micro-credentials that are transferrable across the entire profession. The GOLI platform offers the following types of courses:

GOLI live webinar courses provide up to date information on technical and applied geoscience topics and are taught by a range of experts from across the geosciences. Attendees earn Continuing Education Units (CEUs) upon the completion of the webinar course.

GOLI asynchronous online courses provide learners with the flexibility to actively self-pace their progress, since asynchronous courses do not have a set schedule like traditional academic semester-based courses. Brought to you via the Open edX Learning Management System (LMS), learners are able to browse course descriptions, enroll in specific courses, access content, and complete any course completely free of charge. All learners who complete online courses offered through the GOLI platform with a passing grade of 70% or higher are eligible to purchase Continuing Education Units (CEUs) for a nominal charge.

Have an idea for GOLI content? We'd love to have you as a contributor! To submit your GOLI webinar or course idea, please fill out the [GOLI Proposal Submission Form](#) and a board of reviewers will evaluate your proposal. We look forward to hearing your ideas!

Search for GOLI Courses

Displaying 21 - 28 of 28 courses

Enter search terms

GOLI Course Type



- Any -



Online Course



Webinar

Search



Geoethics in the Field: Integrating Ethical Principles into Geoscience Fieldwork Practices

Course Type: GOLI Online Course

Organization: American Institute of Professional Geologists

CEUs: 0.10

[View Course](#)

This course delves into the key factors involved in ethical fieldwork: values, integrity, and perception, and how these affect not only fieldwork research, but also the geoscience community as a whole. Scott Foss, the course presenter provides a myriad of case studies to help students learn about many different facets of ethics in fieldwork practices including seeking landholder permission for access to field sites, to obtaining permits, to publishing research, and planning for the long-term storage and preservation of samples and collections.



Fundamentals of Professional Ethics: Elements and Examples

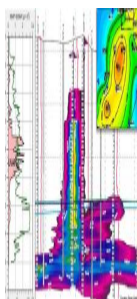
Course Type: GOLI Online Course

Organization: American Institute of Professional Geologists

CEUs: 0.10

[View Course](#)

Everyone is in favor of good moral and professional ethical behavior but few have thought about them rigorously. What constitutes common morality and professional ethics? This course explores the basic concepts and definitions of, and the differences between, common morality and professional ethics. This includes the distinction between moral rules and moral ideals. Case histories will illustrate the concepts presented and the methodology of ethical analysis. The course presenter is David M. Abbott, Jr., AIPG Certified Professional Geologist 4570.



Converting Membrane Interface Probe Sensor Results into VOC NAPL Distribution Information

Course Type: GOLI Online Course

Organization: American Institute of Professional Geologists

CEUs: 0.20

[View Course](#)

This course will focus on how to use Membrane Interface Probe sensor results in combination with soil and groundwater analytical results to map the distribution of volatile organic chemical non aqueous phase liquids. This course covers guidelines for using direct sensing tools such as the MIHPT system, best practices for collecting and analyzing soil and groundwater samples, and gives examples from case studies on how to combine direct sensing data with analytical results to estimate NAPL distribution.



Communicating Cascadia's Earthquake Risk

Course Type: GOLI Online Course
Organization: American Geosciences Institute
CEUs: 0.25
[View Course](#)

Geoscience research is at the forefront of characterizing the earthquake risks associated with the Cascadia subduction zone in the Pacific Northwest. This course covers the science and its implications for policy decisions and resiliency efforts.



Basics of Seismic Petroleum Exploration for New Hires

Course Type: GOLI Online Course
Organization: American Institute of Professional Geologists
CEUs: 1.00
[View Course](#)

This course is intended as a basic review of seismic prospecting methods for locating and extracting oil and gas global resources. It begins with a review of world hydrocarbon reserves, production and consumption, as well as overall goals and methods which apply to petroleum exploratory efforts. It then concentrates on the specific importance of the seismic method in the modern search and development of these reserves. *This course will take about 10 hours to complete.*



Assessing, Mitigating, and Communicating Flood Risk

Course Type: GOLI Online Course
Organization: American Geosciences Institute
CEUs: 0.10
[View Course](#)

Flooding is a perennial hazard for rivers and coasts alike. Every year, flooding results in billions of dollars of damage and the loss

of dozens to hundreds of lives across the United States. Efforts to mitigate this hazard rely on the work of geoscientists, planners, and communicators to assess and minimize risks, prepare and inform communities, and ensure that lives and livelihoods are prioritized before, during, and after flood events.



An Introduction to Professional Writing for Geoscience Careers

Course Type: GOLI Online Course

Organization: American Geosciences Institute

CEUs: 0.10

[View Course](#)

This course will provide an overview of the writing skills that geoscience students develop during their undergraduate and graduate academic training, the skills and tools that are needed for non-academic careers, and advice for students on how to acquire the needed writing skills as they prepare for and pursue their career path.



An Introduction to Landslides and Mass Wasting

Course Type: GOLI Online Course

Organization: American Institute of Professional Geologists

CEUs: 1.00

[View Course](#)

This course is designed to be an introduction to the subject of landslides or mass wasting. Landslides or mass wasting occur in both solid bedrock and in poorly-consolidated sediments. Concerning the latter, loose sands, clays and soft shales can prove to be quite problematic. These type of strata are highlighted in our discussions. We will start with a basic review of soil mechanics and strength of materials, as a precursor to our coverage of the topic of landslides.