GEOLOGY (GEOL)

Courses

GEOL 296. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

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GEOL 273. Geology of the Appalachians. 3 Credits.
Origin of mountain belts; the Appalachian mountain system discussed in terms of tectonics and geologic processes active in modern continental margins. Prerequisites: GEOL 101, GEOL 110.

GEOL 272. Regional Geology. 0 or 4 Credits.
Discussion of the geology of a selected region of North America; a four-week summer field trip to the area in question. Prerequisites: GEOL 101, GEOL 110.

GEOL 271. Vermont Field Geology. 4 Credits.
Field observations of rocks and surficial materials across northern Vermont are utilized to decipher the region's geologic history. Readings complement field work. Prerequisite: Graduate student standing.

GEOL 266. Microstructures. 3 Credits.
This course will focus on deformation of rocks and minerals at the microscopic scale and the practical use of photographic analyses to unravel tectonic histories. Prerequisite: GEOL 260.

GEOL 265. Geomicrobiology. 3 Credits.
An introduction to microbial control of redox chemistry on Earth's surface, including field techniques and a detailed look at how microbes affect element cycling. Prerequisite: GEOL 135.

GEOL 263. Geochronology. 3 Credits.
This course will survey the basic concepts of radioactive decay, mass spectrometry, and isotopic systems commonly used to quantify the timing of geologic events. Prerequisite: GEOL 110.
GEOL 360. Structural Anyl Deformed Rocks. 4 Credits.
Mechanisms of rock deformation; fracture phenomena and analysis; fault zone characteristics; fold generation analysis. Stress and strain interpretation of deformational features in rocks and minerals. Field work. Prerequisite: GEOL 260.

GEOL 361. Advanced Structural Geology. 3 Credits.
Selected topics in analytical structural geology. Prerequisite: GEOL 260.

GEOL 371. Advanced Readings. 1-3 Credits.
Readings and research problems intended to contribute to the program of graduate students in areas of geology for which formal courses are not available. Prerequisite: Graduate standing in Geology.

GEOL 384. Teaching in the Geosciences. 1 Credit.
A review of the pedagogical underpinnings of introductory geology and its laboratory activities.

GEOL 385. Teaching in the Geosciences. 1 Credit.
A review of the pedagogical underpinnings of introductory geology and its laboratory activities.

GEOL 391. Master's Thesis Research. 1-9 Credits.