GEO - Geology

GEO 419. Field Paleontology. 2 Credits. (1 Lec, 1 Lab) Su alternate years, to be offered even years.
PREREQUISITE: GEO 208IN. This two-week class provides field experience in vertebrate paleontology, including sedimentology, facies analysis, measuring stratigraphic sections, microsite screening, field identification of vertebrate and invertebrate fossils, excavation of fossil specimens, and taphonomic data collecting.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11143 | 001 | Non-standard term dates 13- MAY-19 02- AUG-19 | - | - | -

GEO 429R. Field Geology. 3 Credits. (3 Lab) Su
PREREQUISITE: GEO 211, GEO 309, and GEO 315. Must receive a minimum grade of "C" in these courses. A capstone course for the geology and paleontology options. Summer field course with application of field procedures and mapping techniques to a variety of geologic problems and exercises. Students will study a range of rock types, sedimentary depositional environments, and structural deformation styles in order to learn the geological and tectonic history of the western North America Cordillera. Extensive hiking and outdoor physical challenges require that students be physically fit. A fee for supplies, transportation, and other logistical expenses is required.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 10704 | 001 | May-start: 4x4 | - | - | -

GEO 521. Dinosaur Paleontology. 2 Credits. (1 Lec, 1 Lab) Su
PREREQUISITE: Graduate Standing. This course is an introduction to Dinosaur Paleontology and Hell Creek Formation of Eastern Montana. It will provide information and hands-on experience in field techniques used in vertebrate paleontology, including interpretation of sedimentary environments and taphonomy.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 10902 | 001 | Non-standard term dates 24- JUN-19 29- JUN-19 | - | - | -

GEO 522. Dino Paleontology II. 2 Credits. Su alternate years, to be offered even years.
PREREQUISITE: GEO 521 and consent of instructor. This course builds on experience and field techniques acquired from GEO 521 through hands-on participation in on-going paleontology research. Students acquire greater understanding of field data collection and formulation and testing of hypotheses; and advanced knowledge of paleoenvironments and geological processes.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11317 | 001 | Non-standard term dates 15- JUL-19 19- JUL-19 | - | - | -

GEO 585. Mineralogy for Science Teachers. 1 Credit. (1 Sem) Su
PREREQUISITE: A minimum of 2 years teaching experience This course covers fundamental chemical concepts used in mineralogy, including (but not limited to): a) Crystallography and crystal chemistry b) Physical properties of minerals as related to their crystal structures and chemistry c) Anion classification and naming of minerals d) Gemstones versus everyday minerals (i.e., what makes a gemstone special?) e) Identification of minerals in hand specimen (lab work) f) Identification of minerals in rocks (lab work) g) Brief introduction to thin-section analysis and various analytical techniques of mineral analysis.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11369 | 001 | Non-standard term dates 21- JUL-19 21- JUL-19 | U | GAINES143 | 8:00am - 5:00pm
2019 Summer | 11369 | 001 | Non-standard term dates 21- JUL-19 21- JUL-19 | U | GAINES145 | 8:00am - 5:00pm
2019 Summer | 11369 | 001 | Non-standard term dates 21- JUL-19 21- JUL-19 | U | GAINES147 | 8:00am - 5:00pm
**Font Notice**

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leeffrog for a draft with the correct fonts in place.