2019 / Summer II Semester
GOL 475.003
Field Geology

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Office Hours: By appointment
Class meeting time and place: TBA

Course Description:
This course will focus on the field application of geology and paleontology used to interpret ancient depositional environments.

Number of Credit Hours: Three semester hours

Course Prerequisites: Structural Geology, Petrology, Field Methods, GIS

Program Learning Outcomes:
1. Execute geologic procedures and methods accurately, appropriately and efficiently. (Skills)
2. Apply principles of logic and reasoning to develop and analyze geologic problems. (Logical - Reasoning)
3. Demonstrate competence in using various paleontological tools, including technology, to formulate, represent, and solve problems. (Critical thinking - Problem Solving)
4. Demonstrate proficiency in communicating geologic information in an appropriate form to the expected audience. (Communication)

Student Learning Outcomes:
The student is expected to:

1. Recognize, identify and describe rocks and fossil specimens from various field locations.
2. Produce a location map of the field area.
3. Describe the depositional environment of paleontological phenomena.
4. Determine the geologic events that have led to the preservation of fossils.
5. Prepare a geologic and paleontological report.

Text and Materials:
ArcGIS, drafting equipment

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Outline of Topics:

Field Geology and Paleontology of Montana

Field Work
- Rock descriptions
- Paleontological descriptions

Final Report
Summary Report (12-15 pages)
- Student will prepare a field report of the skills acquired while on location, including a location map and a description of the depositional environment that led to the preservation of paleontological phenomena and a timeline of geologic and paleontological events.

Course Calendar: (*Projects may be changed or modified if necessary.)

<table>
<thead>
<tr>
<th>Start Date</th>
<th>Topic *</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 4</td>
<td>Field Geology session begins</td>
<td></td>
</tr>
<tr>
<td>July 29</td>
<td>Return from Field Geology session</td>
<td></td>
</tr>
<tr>
<td>July 30</td>
<td>Report preparation</td>
<td>Aug 16</td>
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</tbody>
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Attendance Policy:

Students are expected to be available during a mutually agreed upon time for course updates. Some background material may be uploaded to d2l for ease of access.

Grading Policy:

The final field report will be graded on the following criteria:

- Thorough rock descriptions
- Geologic interpretation of depositional environment
- General location map
- Detailed paleontological descriptions
- Timeline of geologic and paleontological events
- Clarity
- Original thought*

*It is expected that you will use published material and literature as background; however, your interpretations and descriptions, reports, and timeline will need to be in your own words.
Grades will be calculated in the following way:

<table>
<thead>
<tr>
<th>Project</th>
<th>Possible Points</th>
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<tbody>
<tr>
<td>Field evaluation from dig leader</td>
<td>50</td>
</tr>
<tr>
<td>Final field report</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total Possible Points</strong></td>
<td><strong>150</strong></td>
</tr>
</tbody>
</table>

*Your points divided by the total point = %*

100 – 90% = A; 89 – 80% = B; 79 – 70% = C; 69 – 60% = D; 59 – 00% = F

**Academic Integrity (A-9.1)**

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty**

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp)

**Withheld Grades Semester Grades Policy (A-54)**

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

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The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.