Overview
Geology 154 is a 1-credit course on the geologic events that have shaped part of Eastern Washington. We will meet once on campus and once for a field trip to Vantage and vicinity. This course has no prerequisites.

Goals
Upon completing this course, you should be able to demonstrate your understanding of the geologic history of the Eastern Washington; the landscape and conditions prior to the eruption of flood basalts that created the Columbia River Plateau and catastrophic carving of those faults by floodwaters from Glacial Lake Missoula.

Requirements/Grading
To pass this course you must satisfactorily complete these tasks:

1. Attend and engage in classroom and field trip activities
2. Make an informal presentation during the trip (topic selection to be made on May 16th)
3. Completion of question set/trip summary

Please note: In order to meet the contact hours required to receive 1 credit hour, students must attend both the classroom session and field-trip session of the class. Missing either one will result in a failing grade.

A 2.0 will be assigned for those who complete task (1). A 3.0 will be assigned for those who complete (1) and (2) or (3). A 4.0 will be assigned for those who complete all tasks successfully.
Trip Gear
Please bring/wear these items:
- Warm clothes
- Rain gear
- Sturdy walking shoes (no open toes allowed)
- 1 liter of water (or more)
- Sack lunch and snack (or enough food to sustain you for 12+ hours)
- Notebook and pencils
- Camera (optional)

Field Trip Presentations
Each of you will be assigned a geologic or geographic term related to material covered or examined during the fieldtrip. You should investigate the meaning or relevance of the term and be prepared to share the information with the class during the field trip. Finding a diagram or picture that will aid you in explaining to the group would be very helpful.

You can use encyclopedias, geologic dictionaries or information from geology textbooks available in the school or local libraries. The World Wide Web also has lots of good information.

- Ginkgo trees
- Petrified Wood (how it forms)
- Flood Basalts (what are they, where are they found)
- Grande Ronde Basalts
- Columnar Jointing
- Recessional Cataracts/Coulees (what are they)
- Babcock Bench
- Plunge Pools
- Glacial Lake Missoula
- Ripple Marks
- Glacial Erratics
- Columbia River (general overview)
- Vantage Member – Ellensburg Formation
- Pillow basalts
- Geocache
- Palagonite
- Diatomite
- Peperite (Roza)
- Talus aprons
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:15 am</td>
<td>Depart Highline Community College; Drive to Ginkgo Petrified Forest State Park</td>
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<tr>
<td>Stop #1</td>
<td>Ginkgo Petrified Forest State Park Visitor Center/Overlook</td>
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<tr>
<td>Stop #2</td>
<td>Vantage Member -- Ellensburg Formation</td>
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<tr>
<td>Stop #3</td>
<td>Ginkgo Petrified Forest Trail (short hike)</td>
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<td>Stop #4</td>
<td>Wanapum Vista Overlook</td>
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<td>Stop #5</td>
<td>Roza Peperite</td>
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<td>Stop #6</td>
<td>Frenchman’s Coulee – Plunge Pools (longer length hike)</td>
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<td>Stop #7</td>
<td>Gravel Ripples</td>
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<tr>
<td>8:30 pm</td>
<td>Return to Highline Community College</td>
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