## Major in: Earth Science

### Student Name: ____________________________  Student ID: ____________________________  Student Signature: ____________________________

### Major 73-78 hours, 36 UD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs</th>
<th>Has</th>
<th>Lacks</th>
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</thead>
<tbody>
<tr>
<td>ES 201, 202, 203</td>
<td>Principles of Geology</td>
<td>12</td>
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</tbody>
</table>

Choose one of the following sequences:

- **Earth Science LACC Requirements**
  - CH 104 Intro to Chemistry: 4
  - CH 221, 222 General Chemistry: 8

- The BS and BA require completion of 2-4 credit hours of Computer Science coursework, depending on the chosen Math option.

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<tbody>
<tr>
<td>BI 101, 102, 103</td>
<td>General Biology</td>
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<tr>
<td>BI 211, 212, 213</td>
<td>Principles of Biology</td>
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<tr>
<td>PH 201, 202, 203</td>
<td>General Physics</td>
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<tr>
<td>PH 211, 212, 213</td>
<td>General Physics w/Calculus</td>
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Choose a Math option: (8-10)

- A) MTH 112 Elementary Functions
- MTH 243 Intro to Probability & Statistics
- MTH 251 Calculus I
- MTH 252 Calculus II
- ES 301 Petrographic Microscopy: 2
- ES 302 Quantitative Methods: 2
- ES 321 Structural Geology: 4
- ES 322 Geomorphology & Aerial Photo Interpret.: 4
- ES 407 Senior Seminar: 1
- ES 450 Introduction to Petrology: 4
- ES 453 Geology of the Pacific Northwest: 4
- ES 473 Environmental Geology: 4
- ES 493 Sedimentary Geology: 4

### Earth System Science Choose one:

- ES 331 Intro to Oceanography
- ES 390 Basic Meteorology
- GS 351 Elements of Astronomy

Choose one:

- Sedimentology/Paleobiology: 3-4.
  - ES 304 Survey of the Fossil Record
  - ES 431 Paleobiology
  - ES 491 Stratigraphy & Depositional Systems

- Volcanology/Petrology: 3-4.
  - ES 354 Volcanoes and Earthquakes
  - ES 454 Volcanology
  - ES 460 Energy and Mineral Resources

- Env. Geology/Surface Processes: 3-4.
  - Choose one
    - ES 341 Fundamentals of Geographic Information System
    - ES 476 Hydrology
    - ES 492 GIS Applications in Earth Sci

### Program notes & Additional Degree Requirements

4 hours of writing intensive course work should come from: WR 322 Technical Writing

### Minimum degree requirements of at least:

- 180 or more total credit hours
- 62 Upper Division credit hours
- 45 of last 60 credits earned at WOU campus

### BA Degree Requirements

- CS 101 or higher
- Math 105 or higher
- Writing Intensive: 
- Foreign Language: 

### BS Degree Requirements

- CS121 or higher
- Math 111 or higher
- CS/Math/Stats: 
- Diversity: 
- Writing Intensive: 