Major in: Earth Science

Student Name:  
Student ID:  

<table>
<thead>
<tr>
<th>Major 73-78 hours, 36 UD</th>
<th>Hrs</th>
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<tbody>
<tr>
<td>ES 201, 202, 203 Principles of Geology</td>
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<td>4</td>
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Choose one of the following sequences:

- BI 101, 102, 103 General Biology
- BI 211, 212, 213 Principles of Biology
- PH 201, 202, 203 General Physics
- PH 211, 212, 213 General Physics w/Calculus

Choose a Math option:

- A) MTH 112 Elementary Functions
  - MTH 243 Intro to Probability & Statistics
- B) MTH 243 Intro to Probability & Statistics
  - MTH 251 Calculus I
- C) 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 392 Sedimentary Geology | 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 |

Earth System Science Choose one:  
- ES 331 Intro to Oceanography
- ES 390 Basic Meteorology
- GS 351 Elements of Astronomy

Sedimentology/Paleobiology Choose one:  
- ES 304 Survey of the Fossil Record
- ES 431 Paleobiology
- ES 491 Stratigraphy & Depositional Systems

Volcanology/Petrology Choose one:  
- ES 354 Volcanoes and Earthquakes
- ES 454 Volcanology
- ES 460 Energy and Mineral Resources

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

Program notes & Additional Degree Requirements

**Earth Science Support 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.

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