Geology Track Requirements *(effective Fall 2019)*
Earth Science Major, University of Oregon

- All courses must be taken for a grade (C- or better)
- Check prerequisites for upper division courses
- Total credits: 106

**Core requirements (55 credits):**

- **GEOL 201, 202, 203: Intro Earth Sciences (12)**  
  or **GEOL 101, 102, 103 (12)**  
  *(GEOL 10x and 20x are interchangeable, average grade of B or better required for 101, 102, 103)*
- **GEOL 315: Earth Physics (4)**
- **GEOL 316: Intro Hydrology (4)**
- **GEOL 318: Intro Field Methods (3)**
- **GEOL 363: Computational Tools for Earth Sciences (4)**  
  or **CIS 122: Intro Programming and Problem Solving (4)**
- **PHYS 201, 202: General Physics (8)**  
  or **PHYS 251, 252: Foundations of Physics (8)**
- **CHEM 221, 222: General Chem I,II (8)**  
  or **CHEM 224H, 225H: Honors General Chem I,II (8)**
- **MATH 251, 252: Calculus I,II (8)**  
  or **MATH 246, 247: Calculus for Biological Sciences (8)**
- **GEOL 418: Data Analysis for Earth and Environmental Science (4)**  
  or select one of the following: **MATH 253: Calculus III (4) | MATH 343: Stat Models (4) | MATH 425: Stat Methods (4)**

**Track requirements (31 credits):**

- **GEOL 331: Mineralogy (5)**
- **GEOL 332: Petrology (5)**
- **GEOL 334: Sedimentology and Stratigraphy (4)**
- **GEOL 350,351,352: Structural Geology, Laboratory, and Problems (5)**
- **GEOL 406: Field Studies (12 credits)**

**Track electives (Select 20 credits from the following): *suggested***

- **GEOL 304 to 310 (up to 4 credits)**
- **GEOL 353: Geologic Hazards (4)**
- **GEOL 401: Research (up to 4 credits; may be taken for P or P* grade)**
- **GEOL 403: Thesis (up to 4 credits; may be taken for P or P* grade)**
- **GEOL 407: Current Topics Seminar (up to 3 credits; may be taken for P or P* grade)**
- **GEOL 410 and above (includes >20 courses spanning a broad swath of Earth Science topics) *  
  **GEOG 481, 482: GIScience I, II (4 each) *  
  **BIOL 306 and above  
  **CHEM 331 and above (4 each)**  
  **CIS 210, 211, 212: Computer Science I, II, III (4 each)**  
  **MATH 256: Intro Differential Eqn (4) | 281, 282: Several-Variable Calc I, II (4 each) | 341, 342: Elem Linear Algebra I,II (4 each) | 411, 412: Functions Complex Variable I,II (4 each) | 420: Ordinary Differential Eqns (4) | 421, 422: Partial Differential Eqns (4 each)  
  **PHYS 203: Gen Physics (4) | 204, 205, 206: Phys Lab (2 each) | 253: Foundations Physics (4) | 290: Foundations Physics Lab (1) | 351, 352, 353: Foundations Physics II (4 each) | 411, 412, 413: Mechanics, Electricity, and Magnetism (4 each)**

**Update: 2 May 2019**