Environmental Geoscience Track: Earth Science Major, Univ. of Oregon

- All courses must be taken for a grade (C- or better)
- Check prerequisites for upper division courses
- Total credits: 104 or 109

Core requirements (60 or 65 credits):

- ERTH 201, 202, 203: Intro Earth Sciences (12)
  - or ERTH 101, 102, 103 (12)  (*ERTH 10x and 20x are interchangeable, average grade of B or better required for 101, 102, 103*)
- ERTH 311: Earth Materials (5)
  - or ERTH 331: Mineralogy (5) and ERTH 332: Petrology (5)
- ERTH 315: Earth Physics (4)
- ERTH 316: Intro Hydrology (4)
- ERTH 318: Intro Field Methods (3)
- ERTH 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)
- CH 221, 222: General Chem I,II (8)
  - or CH 224H, 225H: Honors General Chem I,II (8)
- MATH 251, 252: Calculus I,II (8)
  - or MATH 246, 247: Calculus for Biological Sciences (8)
- ERTH 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)

Group A Electives (Select 24 credits from the following, additional credits from this group can be applied to Group B electives):

- ERTH 310: Earth Resources and the Environment (4)
- ERTH 334: Sedimentology and Stratigraphy (4)
- ERTH 353: Geologic Hazards (4)
- ERTH 438: Geobiology (4)
- ERTH 441: Hillslope Geomorphology (4)
- ERTH 451: Hydrogeology (4)
- ERTH 455: Mechanical Earth (4)
- ERTH 462: Environmental Geomechanics (4)
- ENV 477: Soil Science (4)
- ERTH 410: Physical Oceanography (4)
- ERTH 410: Soil and Environmental Chemistry (4)

Group B Electives (Select 20 credits from the following):  *suggested*

- Group A Elective courses beyond 24 credits *
  - GEOG 481, 482: GIScience I, II (4 each) *
  - ERTH 301 to 309 (up to 4 credits)
  - ERTH 350,351,352: Structural Geology, Laboratory, and Problems (3+)
  - ERTH 401: Research (up to 4 credits; may be taken for P or P* grade)
  - ERTH 403: Thesis (up to 4 credits; may be taken for P or P* grade)
  - ERTH 406: Field Studies (up to 12 credits)
  - ERTH 407: Current Topics Seminar (up to 3 credits; may be taken for P or P* grade)
  - ERTH 410 and above not taken as Group A Electives *(includes >20 courses spanning a broad swath of Earth Science topics)*


- BI 212: Organisms (4) | 213: Populations (4) | 214: Mechanisms (4) |

- BI 306 and above


- CH 331 and above (includes Organic Chemistry, Physical Chemistry, and Biochemistry)

- CIS 210, 211, 212: Computer Science I, II, III (4 each)


*Updated: 30 June 2020*