Environmental Geoscience 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: 104 or 109

Core requirements (60 or 65 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 311: Earth Materials (5)
  or GEOL 331: Mineralogy (5) and GEOL 332: Petrology (5)
  __ 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)

Group A Electives (Select 24 credits from the following, additional credits from this group can be applied to Group B electives):
  __ GEOL 310: Earth Resources and the Environment (4)
  __ GEOL 334: Sedimentology and Stratigraphy (4)
  __ GEOL 353: Geologic Hazards (4)
  __ GEOL 438: Geobiology (4)
  __ GEOL 441: Hillslope Geomorphology (4)
  __ GEOL 451: Hydrogeology (4)
  __ GEOL 455: Mechanical Earth (4)
  __ GEOL 462: Environmental Geomechanics (4)
  __ ENVS 477: Soil Science (4)
  __ GEOL 410: Physical Oceanography (4)
  __ GEOL 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) *
  __ GEOL 301 to 309 (up to 4 credits)
  __ GEOL 350,351,352: Structural Geology, Laboratory, and Problems (3+)
  __ 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 406: Field Studies (up to 12 credits)
  __ GEOL 407: Current Topics Seminar (up to 3 credits; may be taken for P or P* grade)
  __ GEOL 410 and above not taken as Group A Electives (includes >20 courses spanning a broad swath of Earth Science topics)
  __ GEOG 321: Climatology (4) | 322: Geomorphology (4) | 323: Biogeography (4) | 360: Watershed Sci (4) | 361: Global Enviro Change (4)
  __ BIOL 212: Organisms (4) | 213: Populations (4) | 214: Mechanisms (4)
  __ BIOL 306 and above
  __ CHEM 331 and above (includes Organic Chemistry, Physical Chemistry, and Biochemistry)
  __ CIS 210, 211, 212: Computer Science I, II, III (4 each)

Updated: 2 May 2019