Geology Track Requirements: 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):
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 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)
or select one of the following. Wittin 255: edicalas in (4) Wittin 545: State Models (4) Wittin 425: State Methods (4)
Track requirements (31 credits):
ERTH 331: Mineralogy (5)
ERTH 332: Petrology (5)
ERTH 334: Sedimentology and Stratigraphy (4)
ERTH 350,351,352: Structural Geology, Laboratory, and Problems (5)
ERTH 406: Field Studies (12 credits)
Track electives (Select 20 credits from the following): *suggested
ERTH 304 to 310 (up to 4 credits)
ERTH 353: Geologic Hazards (4)
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 407: Current Topics Seminar (up to 3 credits; may be taken for P or P* grade)
ERTH 410 and above (includes >20 courses spanning a broad swath of Earth Science topics) *
GEOG 481, 482: GIScience I, II (4 each) *
BI 306 and above
CH 223: Gen Chem III (4) 226H: Honors Gen Chem III (4) 227, 228, 229: Gen Chem Lab (2 each) 237, 238, 239: Adv Gen Cher
Lab (2 each)
CH 331 and above (4 each)
CIS 210, 211, 212: Computer Science I, II, III (4 each)
GEOG 321: Climatology (4) 322: Geomorphology (4) 323: Biogeography (4) 360: Watershed Sci (4) 361: Global
Environmental Change (4) 421: Adv Climatology (4) 423: Adv Biogeography (4) 425: Hydrology and Water Resources
427: Fluvial Geomorphology (4) 430: Long-term Environmental Change (4) 485, 486: Remote Sensing I,II (4 each) 490:
GIScience Topics (4) 491: Adv Geographic Information Systems (4) 494: Spatial Analysis (4) 495: Geog Data Analysis (4)
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
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: 30 June 2020