Paleontology 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: 105 or 110

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)
- BIOL 211: Cells (4)
- BIOL 212: Organisms (4)
  - or BIOL 213: Populations (4)
- CHEM 221, 222: General Chem I,II (8)
  - or CHEM 224, 225: Honors General Chem I,II (8)
- PHYS 201: General Physics (4)
  - or PHYS 251: Foundations of Physics (4)
- MATH 251, 252: Calculus I,II (8)
  - or MATH 246, 247: Calculus for Biological Sciences (8)
- GEOL 311: Earth Materials (5)
  - or GEOL 331: Mineralogy (5) and GEOL 332: Petrology (5)
- GEOL 315: Earth Physics (4)
  - or 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)
- 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 (29 credits):
- GEOL 334: Sedimentology and Stratigraphy (4)
- GEOL 350,351,352: Structural Geology, Laboratory, and Problems (5)
- GEOL 406: Field Studies (12 credits)
- GEOL select two from 431: Paleontology (4) | 433: Paleobotany (4) | 434: Vertebrate Paleontology (4) | 435: Paleopedology (4)

Track electives (Select 16 credits from the following): *suggested
- GEOL 304 to 310 (up to 4 credits)
- GEOL 316: Intro Hydrology (4) or GEOL 315: Earth Physics (4) (whichever not taken for core requirements)
- 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)
  - 468: Evolutionary Theory (4) | 471: Zooarchaeology (4) | 479: Taphonomy: Bones, Bugs, and Burials (4)
- BIOL 306 and above
- CHEM 331 and above
- CIS 210, 211, 212: Computer Science I, II, III (4 each)
- GEOG 481, 482: GIScience I, II (4 each) *
- PHYS 202, 203: Gen Physics (4 each) | 204, 205, 206: Phys Lab (2 each) | 253: Foundations of Phys I (4) | 290: Foundations Physics Lab (1) | 351, 352, 353: Foundations Physics II (4 each) | 411, 412, 413: Mechanics, Electricity, and Magnetism (4 each)

Updated: 2 May 2019