Paleontology Track Requirements: 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: 105 or 110

Core requirements (63 or 68 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)
__ BI 221Z: Principles of Biology I: Cells (5) ***or*** BI 281H (6)
__ BI 222Z: Principles of Biology II: Organisms (5) ***or*** BI 282H (6)
__ BI 223Z: Principles of Biology III: Ecology and Evolution (5) ***or*** BI 283H (6)
__ CH 221Z, 222Z: General Chem I, II (8) ***or*** CH 224, 225: Honors General Chem I, II (8)
__ PHYS 201: General Physics (4) ***or*** PHYS 251: Foundations of Physics (4)
__ MATH 251Z, 252Z: Calculus I, II (8) ***or*** MATH 246, 247: Calculus for Biological Sciences (8)
__ ERTH 311: Earth Materials (5) ***or*** ERTH 331: Mineralogy (5) ***and*** ERTH 332: Petrology (5)
__ ERTH 318: Intro Field Methods (3)
__ ERTH 363: Computational Tools for Earth Sciences (4) ***or*** CIS 122: Intro Programming and Problem Solving (4)
__ ERTH 418: Data Analysis for Earth and Environmental Science (4)
or *select one of the following:* MATH 253Z: Calculus III (4) | MATH 343: Stat Models (4) | MATH 425: Stat Methods (4)

Track requirements (30 credits):

__ ERTH 334: Sedimentology and Stratigraphy (4)
__ ERTH 350,351,352: Structural Geology, Laboratory, and Problems (5)
__ ERTH 319 or 406: Field Studies (4)
__ ERTH 434: Vertebrate Paleontology (4) ***or*** ERTH 436: Paleoecology and Functional Morphology (4)
__ BI 380: Evolution (4)
__ *select one from the following not counted previously in the Track Requirements*: __ ERTH 304: Fossil Record (4) | ERTH 434: Vertebrate Paleontology (4) | ERTH 436: Paleoecology and Functional Morphology | GEOG 323: Biogeography (4) | GEOG 423: Adv Biogeography (4) | GEOG 430: Long-term Environmental Change (4) | ANTH 462: Primate Evolution (4) | ANTH 467: Paleoecology & Human Evolution (4) | 479: Taphonomy: Bones, Bugs, and Burials (4)

Track electives (Select 12 credits from the following): **suggested*

__ ERTH 305 to 310 (up to 4 credits)
__ ERTH 316: Intro Hydrology (4)
__ ERTH 315: Earth Physics (4)
__ ERTH 353: Geologic Hazards (4)
__ ERTH 337: Introduction to Physical Oceanography (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 406: Field Studies (4 each, up to 8)
__ ERTH 407: Current Topics Seminar (up to 3 credits; may be taken for P or P* grade)
__ ERTH 420. Geocommunication (3)
__ ERTH 410 and above *(includes >20 courses spanning a broad swath of Earth Science topics)*
__ ANTH 361: Human Evolution (4) |366: Human Osteology Lab (4) |462: Primate Evolution (4) | 467: Paleoecology & Human Evolution (4) | 468: Evolutionary Theory (4) | 471: Zooarchaeology (4) | 479: Taphonomy: Bones, Bugs, and Burials (4)
__ BI 306 and above
__ CH 223Z: Gen Chem III (4) | 226: Honors Gen Chem III (4) | 227, 228, 229: Gen Chem Lab (2 each) | 237, 238, 239: Adv Gen Chem Lab (2 each) | CH 331 and above
__ CIS 210, 211, 212: Computer Science I, II, III (4 each)
__ GEOG 481, 482: GIScience I, II (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) | 491: Adv. Geographic Info 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 (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)