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 (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)
__ BI 211: Cells (4)
__ BI 213: Populations (4)
or BI 212: Organisms (4)
__ CH 221, 222: 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 251, 252: 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 315: Earth Physics (4)
or 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)
__ 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)

Track requirements (29 credits):

__ ERTH 334: Sedimentology and Stratigraphy (4)
__ ERTH 350,351,352: Structural Geology, Laboratory, and Problems (5)
__ ERTH 406: Field Studies (12 credits)
__ ERTH select two from 433: Paleobotany (4) | 434: Vertebrate Paleontology (4) | 435: Paleopedology (4)

Track electives (Select 16 credits from the following): **suggested*

__ ERTH 304 to 310 (up to 4 credits)
__ ERTH 316: Intro Hydrology (4) *or* ERTH 315: Earth Physics (4) *(whichever not taken for core requirements)*
__ 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)*
__ 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 223: 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)

Updated: 30 June 2020