Flowchart for Core BS Geosciences Courses: SECONDARY EDUCATION Emphasis, 2019-2020 Catalog

This chart shows only the required core BS Earth Science Education courses and prerequisites. Additional courses are needed for graduation. Please consult the Undergraduate Catalog and meet with your advisor to craft a plan for degree completion. Course prerequisites and degree requirements are subject to change.

- **ED-CIFS 201** Foundations of Education
- **STEM-ED 101** Step 1: Inquiry Approaches to Teaching
- **STEM-ED 102** Step 2: Inquiry-based Lesson Design
- **STEM-ED 210** Knowing & Learning in Math & Science
- **STEM-ED 220** Perspectives on Science and Mathematics
- **STEM-ED 201** Introduction to Oceanography (Fall)
- **STEM-ED 310** Classroom Interactions
- **STEM-ED 350** Research Methods (junior or senior standing in major)
- **GEOL 101** Physical Geology OR **GEOS 101** Global Environmental Science
- **GEOS 101** Global Environmental Science
- **GEOS 213** Atmosphere and Weather (Fall)
- **GEOS 212** Water in the West (Spring)
- **GEOS 200** Evolution W. North America (Fall)
- **GEOS 220** Seeing the Unseen (Fall)
- **ENGL 102** English Comp
- **GEOS 300** Earth Materials (Fall)
- **GEOS 314** Structural Geology (Spring)
- **GEOS 313** Geomorphology (Spring)
- **GEOS 315** Sedimentation/Stratigraphy (Fall)
- **GEOS 242** Communication in Earth Sciences (Spring)
- **GEOS 222** Communication in Earth Sciences (Spring)
- **STEM-ED 220** Perspectives on Science and Mathematics
- **STEM-ED 310** Classroom Interactions
- **STEM-ED 350** Research Methods (junior or senior standing in major)
- **STEM-ED 410** Project-Based Instruction
- **STEM-ED 480** Apprentice Teaching
- **CHEM 111/111L** General Chemistry I
- **CHEM 112/112L** General Chemistry II
- **PHYS 104** Planets and Astrobiology OR **PHYS 105** Stars and Cosmology
- **MATH 143 and MATH 144** or appropriate placement exam score
- **MATH 108 or appropriate placement exam score
- **MATH 170** Calculus I
- **MATH 175** Calculus II
- **MATH 254** Applied Statistics
- **PHYS 111** General Physics I
- **PHYS 112** General Physics II
- **GEOG 213** Atmosphere and Weather (Fall)
- **STEM-ED 210** Knowing & Learning in Math & Science
- **STEM-ED 220** Perspectives on Science and Mathematics
- **STEM-ED 310** Classroom Interactions
- **STEM-ED 350** Research Methods (junior or senior standing in major)
- **STEM-ED 410** Project-Based Instruction
- **STEM-ED 480** Apprentice Teaching
- **MATH 170** Calculus I
- **MATH 175** Calculus II
- **MATH 254** Applied Statistics
- **PHYS 111** General Physics I
- **PHYS 112** General Physics II
- **GEOG 360 Introduction to Oceanography** (Spring)
- **MATH 170 Calculus I**
- **MATH 175 Calculus II**
- **MATH 254 Applied Statistics**
- **PHYS 104 Planets and Astrobiology OR PHYS 105 Stars and Cosmology**
- **GEOG 360 Introduction to GIS**

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