Flowchart for Core BS Geosciences Courses: SECONDARY EDUCATION Emphasis, 2018-2019 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.

MATH 108 or appropriate placement exam score

GEOS 100 Fundamentals of Geology
OR
GEOS 101 Global Environmental Science

MATH 143 and MATH 144 or appropriate placement exam score

CHEM 111/111L General Chemistry I

MATH 170 Calculus I

PHYS 111 General Physics I

PHYS 104 Planets and Astrobiology
OR
PHYS 105 Stars and Cosmology

MATH 254 Applied Statistics

GEOS 357 Computation in Geoscience (Fall)

GEOG 360 Intro to GIS

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 310 Classroom Interactions

STEM-ED 410 Project-Based Instruction

STEM-ED 480 Apprentice Teaching

GEOS 220 Seeing the Unseen (Spring)

GEOS 300 Earth Materials (Fall)

ENGL 102 English Comp

GEOS 212 Water in the West (Fall)

GEOS 200 Evolution W. North America (Fall)

ENGLISH 102 English Comp

STEM-ED 220 Perspectives on Science and Mathematics

GEOS 242 Communication in Earth Sciences (Spring)

ENGLISH 102 English Comp

GEOS 242 Communication in Earth Sciences (Spring)

GEOS 201 Introduction to Oceanography (Fall)

GEOS 200 Evolution W. North America (Fall)

STEM-ED 220 Perspectives on Science and Mathematics

GEOS 314 Structural Geology (Spring)

GEOS 201 Introduction to Oceanography (Fall)

STEM-ED 310 Classroom Interactions

STEM-ED 350 Research Methods (junior or senior standing in major)

MATH 143 and MATH 144 or appropriate placement exam score

CHEM 112/112L General Chemistry II

MATH 175 Calculus II

PHYS 112 General Physics II

Geo 213 Atmosphere and Weather (Fall)

GEOS 212 Water in the West (Fall)

GEOS 220 Seeing the Unseen (Spring)

GEOS 300 Earth Materials (Fall)

MATH 143 and MATH 144 or appropriate placement exam score

CHEM 111/111L General Chemistry I

MATH 170 Calculus I

PHYS 111 General Physics I

PHYS 104 Planets and Astrobiology
OR
PHYS 105 Stars and Cosmology

MATH 254 Applied Statistics

GEOS 357 Computation in Geoscience (Fall)

GEOG 360 Intro to GIS

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 310 Classroom Interactions

STEM-ED 410 Project-Based Instruction

STEM-ED 480 Apprentice Teaching

GEOS 212 Water in the West (Fall)

GEOS 200 Evolution W. North America (Fall)

ENGL 102 English Comp

GEOS 242 Communication in Earth Sciences (Spring)

ENGLISH 102 English Comp

GEOS 242 Communication in Earth Sciences (Spring)

GEOS 201 Introduction to Oceanography (Fall)

STEM-ED 220 Perspectives on Science and Mathematics

STEM-ED 310 Classroom Interactions

STEM-ED 350 Research Methods (junior or senior standing in major)

MATH 143 and MATH 144 or appropriate placement exam score

CHEM 112/112L General Chemistry II

MATH 175 Calculus II

PHYS 112 General Physics II

CHEM 111/111L General Chemistry I

MATH 170 Calculus I

PHYS 111 General Physics I

PHYS 104 Planets and Astrobiology
OR
PHYS 105 Stars and Cosmology

MATH 254 Applied Statistics

GEOS 357 Computation in Geoscience (Fall)

GEOG 360 Intro to GIS

MATH 108 or appropriate placement exam score

GEOS 100 Fundamentals of Geology
OR
GEOS 101 Global Environmental Science

MATH 143 and MATH 144 or appropriate placement exam score

CHEM 112/112L General Chemistry II

MATH 175 Calculus II

PHYS 112 General Physics II

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