EARTH SCIENCE 7-12, B.S.

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall and a 2.7 cumulative GPA is required for graduation.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southernct.edu/academics/earth-science/programs

This program is an education preparation program. Please consult the College of Education page for more information about the college admission requirements.

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. Detailed information on these requirements is published in this section of the catalog: https://catalog.southernct.edu/undergraduate/general-information/lep.html.

Writing courses are not additional course requirements, course sections that meet this requirement are designated with a ‘W’ on the class schedule. Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (75 Credits)

Earth Science Requirements (48 Credits)
‘C-’ or better required
ESC 200 — Physical Geology
ESC 201 — Historical Geology (T2LE)*
ESC 210 — Principles of Astronomy (T2TP)*
ESC 205 — Principles of Meteorology
ESC 220 — Physical and Chemical Oceanography
ESC 311 — Mineralogy
ESC 332 – Invertebrate Paleontology or ESC 461 - Glacial Geology (T3)*
ESC 350 - Structural Geology and Tectonics
ESC 430 — Field Methods

Select one from:
• ESC 312 – Petrology
• ESC 325 – Stratigraphy and Sedimentation

11 Credits of ESC at or above the 200-level.

Education Requirements (27 Credits)
EDU 316 - Child Development and Psychology for Educators (‘C’ or better)
EDU 413 – Secondary Education (‘C’ or better)
EDU 471 - Supporting English Learners for School Success ('C' or better)
RDG 470 - Literacy in the Content Areas ('C' or better)
SCE 490 – Science (Secondary School) ('C' or better)
SCE 494 – Student Teaching (Science)
SCE 496 – Student Teaching Seminar (Science)
SED 482 – Teaching Exceptional Students in the Secondary Education Classroom ('C' or better)

Non-Course Requirements:
Module 1: Behavioral Difficulties (Social and Emotional Development)
Module 2: Dyslexia Required
Pass Praxis® II with a score of 157 or higher

COGNATE REQUIREMENTS (24 Credits)

CHE 120 – General Chemistry I (T2PR)*
EDU 200 - Teachers, Schools, and Society ('C' or better) (T2CC)*
HIS 110 – United States History I or HIS 111 – United States History II (T2AE)*
MAT 120 - College Algera or MAT 122 – Precalculus or MAT 150 – Calculus I (T1QR)*
PHY 200 – General Physics I or PHY 230 - Physics for Scientists and Engineers I
SHE 203 – School Health ('C' or better) (T2MB)*

Select one from:
BIO 102 – Biology I
BIO 120 – Microbiology
CHE 121 – General Chemistry II
PHY 201 – General Physics II
PHY 231 - Physics for Scientists and Engineers II