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.southerncst.edu/academics/earth-science/programs

This is also a teacher/educator preparation program that prepares students for teacher certification in the state of Connecticut. For more information about admission to these programs, please visit Admissions>>Teacher/Educator Preparation Programs.

In addition, candidates recommended for certification must meet the requirements listed below and in effect on the date the CSDE receives the certification application. For more information about these additional CSDE requirements, please visit Degree Requirements>>Teacher/Educator Preparation Programs.

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. To review more detailed information regarding these requirements, please visit Degree Requirements >> General Education (LEP) Requirements. 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 225 – Introduction to Exceptionalities (‘C’ or better)

**Non-Course Requirements:**
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 Algebra 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