EARTH SCIENCE, B.S. - NATURAL HAZARDS

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall 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

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 (45 Credits)

‘C-’ or better required

ESC 200 — Physical Geology
ESC 201 — Historical Geology (T2LE)*
ESC 205 — Principles of Meteorology
ESC 210 — Principles of Astronomy (T2TP)*
ESC 220 — Physical and Chemical Oceanography
ESC 311 — Mineralogy
ESC 312 — Petrology or ESC 325 — Stratigraphy and Sedimentation
ESC 350 — Structural Geology and Tectonics
ESC 430 — Field Methods
7 Additional credits in ESC at the 200-level or above

Select one option from the three listed below:

• ESC 492 — Undergraduate Thesis Proposal and ESC 493 — Undergraduate Thesis
• ESC 492 — Undergraduate Thesis Proposal and ESC 497 — Internship
• Two additional ESC courses at the 200-level or above

COGNATE REQUIREMENTS (34 Credits)

BIO 102 - Biology I
BIO 120 or BIO 233 Microbiology
CHE 120 - General Chemistry I (T2PR)*
CSC 152 or MAT 107 or MAT 221 - Computer Science/Mathematics
MAT 120 or MAT 122 or MAT 150 - Mathematics (T1QR)*
PHY 200 - General Physics I

Select 3 courses:
ANT 252 - Introduction to Forensic Science
ANT 322 - Forensic Anthropology
ANT 352 - Crime Scene Investigation
ANT 442 - Advanced Forensic Anthropology
PCH 202 - Introduction to Public Health
PCH 259 - Environmental Health
PCH 265 - Illness and Disease
PCH 342 - Introduction to Epidemiology
PCH 358 - Health Policy
PCH 362 - Public Health Management
PCH 370 - Emergency Medical Technician (EMT) Training
PCH 441 - Water Supply and Waste-Water Treatment
PCH 446 - Environmental Hazards
SOC 362 - Criminology

Select one course (T3)*:
ANT 311 - Applied Anthropology
ESC 332 - Invertebrate Paleontology (‘C-’ or better)
ESC 461 - Glacial Geology (‘C-’ or better)
IDS 320 - Human Flourishing in the 21st Century
IDS 405 - In a World: Capstone Experience
PCH 353 - Global Health
MAT 342 - Statistical Decision Making