

Central Connecticut State University
School of Engineering, Science, and Technology

Degree: Bachelor of Science
Program: Earth Science - Planetary Geology
Effective Term: Fall 2025

Name: _____

ID#: _____

General Education: Ways of Understanding:

Arts & Humanities (9 credits)

	Credits	Grade
Literature	3	

Social & Behavioral Sciences (12 credits)

	Credits	Grade
History	3	

Math & Natural Sciences (9-10 credits)

MATH 152 Calculus I	X	
MATH 221 Calculus II	X	
PHYS 125	X	

General Education: Essential Skills:

Written & Oral Communication (6 credits)

WRT 105 or 110	3	

World Language (0-6 credits) or Gen Ed Free Elective (3 credits)

World Language course numbered 112 or 118* or Gen Ed Free Elective	3	
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Thriving in College (2-3 credits)

CCSU 102, 103, or FYE course**	2-3	
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A maximum of 16 credits (4 courses) applied towards Ways of Understanding and Essential Skills requirements may be used to fulfill a major and/or minor requirement.

International & Equity, Justice, & Inclusion (EJI) Requirements:

International	3	
International	3	
Equity, Justice, & Inclusion***	3	

Coursework applied toward International & EJI requirements may be used in any other area of general education or program requirements.

Honors Program: HON courses can be used to fulfill certain general education requirements. Consult the Honors Program curriculum for details.

Residency Requirements: A minimum of 30 credits overall must be completed in residence, with at least 15 credits in the major (at least 12 of which must be at the 300 level or above) and 9 credits in a minor at Central. In residence means attending classes conducted on campus or under supervision of Central.

* Students with 3 years, or more, of one world language at the high school level, a passing score on a world language placement exam, or native proficiency in a language other than English will have the World Language requirement waived and can satisfy this requirement with any general education free elective course (3cr).

** Transfer students with 24 or more transfer credits at the time of admission can satisfy this requirement with any general education free elective (3cr).

*** Waived for transfer students with 50 or more transfer credits at the time of admission.

Earth Science Major Requirements (42 credits)

Requires grade of C or higher, unless otherwise specified.

Core Requirements (19 credits)

	Credits	Grade
ESCI 121 The Dynamic Earth or ESCI 131 Environmental Geoscience	3	
ESCI 125 The Dynamic Earth Lab or ESCI 135 Environmental Geoscience Lab	1	
ESCI 141 Earth and Life History	3	
ESCI 145 Earth and Life History Laboratory	1	
ESCI 221 Mineralogy	4	
ESCI 223 Stratigraphy and Sedimentology	4	
ESCI 290 Field Methods in Geology	2	
ESCI 260 Communicating the Geological Sciences	1	

Concentration in Planetary Geology (25 credits)

AST 208 Planetary Astronomy or AST 209 Stellar and Galactic Astronomy	4	
AST 278 Observational Astronomy	3	
AST 378 Comparative Planetology	3	
ESCI 360 Research Methods in Geological Sciences	1	
ESCI 424 Geomorphology	4	
Planetary Geology Electives: AST 418 or 470 or 490 or 495 or ESCI 321 or 322 or 350 or 490	6-8	
ESCI 460 Senior Project or External Geology Field Camp	2-4	

Earth Sciences Additional Requirements (24 credits)

PHYS 125 University Physics I	4	
PHYS 126 University Physics II	4	
CHEM 161 and 162 General Chemistry and Lab	4	
CHEM 201 and 260 OR BIO 121	4	
MATH 152 Calculus I	4	
MATH 221 Calculus II	4	

Coursework applied toward Related or Additional requirements may be used in any other area of general education or program requirements.

Is a Minor Required with this Major?

Yes No

Free Electives may be used, as needed, to reach the total credits required for the degree when all other degree requirements have been met.

Total Credits Required for Degree: 120