

Geophysics Degree Requirements: Carolina Core

(Credits)

- CMW Written Communication (Grade of C or higher required)**
- ENGL-101 (3)
 - ENGL-102 (also fills INF Overlay when taken here) (3)
- ARP Analytical Reasoning & Problem Solving** (also fulfills cognate)
- MATH 141: Calculus I (4)
 - MATH 142: Calculus II (4)
 - MATH 241: Vector Calculus (3)
 - MATH 242: Elementary Differential Equations (3)
 - MATH 527: Numerical Analysis (spring of even years) (3)
 - MATH 526 Numerical Linear Algebra or MATH 544 Linear Algebra (4 or 3)
 - STAT 509 or STAT 515 (3)
 - CSCE 206 Scientific Applications Programming or CSCE 207 UNIX System Admin (3)
- SCI Scientific Literacy**
- PHYS 211/211L: Essentials of Physics I and lab (3/1)
 - PHYS 212/212L: Essentials of Physics II and lab (3/1)
 - CHEM 111/L: General Chemistry I and lab (3/1)
 - CHEM 112/L: General Chemistry II and lab (3/1)
- Global Citizenship & Multicultural Understanding**
- GFL Communicating Effectively In More Than One Language**
Foreign Language thru 122 level (0-9 credits)
(may include language 109, 110 (or 121) and 122)
- GHS Historical Thinking**
- History: 100-level US (3)
 - History: 100-level non US (3)
- GSS Social Sciences**
Select 2 courses (6 credits); at least one must be from:
AFAM 201; ANTH 101, 102, 204, 210, 211; COLA 298; CRJU 101; GEOG 103, 121, 210, 221, 223-226, 228;
LASP 331; LING 101; POLI 101, 201; PSYC 101; SOCY 101; WGST 112, 113, 210 (3, 3)
- AIU Aesthetic & Interpretive Understanding**
Select 2 courses (6 credits) from Fine Arts, Literature, or Humanities; at least one must be from:
ARTE 101, 260; ARTH 105, 106; ARTS 103, 104, 210; CLAS 220; CPLT 150, 270; DANC 101; ENGL 270,
282-288; FILM 110, 180, 240; FREN 290; GERM 270, 290; MART 110, 210; MUSC 110, 113-115, 140, 310;
RELG 270; RUSS 280; SOST 101; SPAN 220; THEA 170, 181, 200 (3, 3)

- Overlay**
- A. CMS Persuasive Communication
PHIL 325; SAEL 200; SPCH 140, 230, 260
- B. INF Information Literacy
ENGL 102 (recommended); or LIBR 101, SLIS 202, STAT 112
- C. VSR Values, Ethics & Social Responsibility
BIOL 208; CPLT 150; CSCE 390; HIST 108; LING 240; PHIL 103, 211, 320-322, 325; POLI 201, 302-304;
RELG 205; SAEL 200; WGST 112

Geophysics Degree Requirements: Major Requirements

(Credits)

Geology Courses (Pass with C or higher)

- GEOL 101, 103 or 201 (4)
- GEOL 302: Rocks and Minerals (4)
- GEOL 345: Internal Earth (prereq GEOL 302, MATH 141) (4)
- GEOL 355: Mountain Building (prereq GEOL 302, PHYS 211) (4)
- GEOL 531: Plate Tectonics (3)
- GEOL 554: Applied Seismology (3)
- GEOL 555: Elementary Seismology (3)
- GEOL 556: Seismic Reflection Interpretation (3)
- GEOL 575: Numerical Modeling for Earth Science Applications (3)
- GEOL 582: Marine Hydrodynamics (3)

Senior Capstone Experience

- GEOL 548: Environmental Geophysics (4)
(note: an approved field course may substitute)

128 Credits needed for graduation (includes electives; does not include PEDU, Band and other one-credit performance courses)
