

Geophysics Degree Requirements: Carolina Core

Name: _____

(Credits)

- CMW Written Communication (Grade of C or higher required)**
- ENGL-101 (3)
- ENGL-102 (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 344 and 344L: Applied Linear Algebra and the Lab (3)+(1)
- Choose one class from MATH 520-522, 524-527, 550 or 552 (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: HIST 100-level US (3)
- History: HIST 100-level non US (3)
- GSS Social Sciences**
Select 2 courses (6 hrs); at least one must be an approved Carolina Core GSS class such as:
AFAM 201; ANTH 101, 102, 204, 205, 210, 211, 213; CRJU 101; GEOG 103, 105, 121, 210, 221-226, 228;
LING 101; POLI 101, 201; PSYC 101; SOCY 101, 102; WGST 112, 113, 210 or other approved CC-GSS (3, 3)
- AIU Aesthetic & Interpretive Understanding**
Select 2 courses (6 hrs) from Fine Arts, Literature, or Humanities; at least one must be from:
ARTE 101, 260; ARTH 105, 106; ARTS 103, 104; CLAS 220; CPLT 150, 270; DANC 101; ENGL 270, 282-
288; FILM 110, 180, 240; FREN 290; GERM 290; MART 210; MUSC 110, 113-115, 140; RUSS 280; SOST
101; SPAN 220; THEA 170, 181, 200 or other approved CC-AIU (3, 3)



Overlay



A. CMS Persuasive Communication

PHIL 325; SAEL 200; SPCH 140, 145 or other approved CC- CMS



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; ENVR 322; HIST 108; LING 240; PHIL 103, 211, 320-322, 325; POLI 201, 302-304; RELG 205; SAEL 200; WGST 112 or other approved CC-VSR

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)



Select *one* of :

(4)

GEOL 315: Surface and Near Surface Processes (Prereq PHYS 201 or 211) OR

GEOL 325 - Stratigraphy and Sedimentary Basins (Prereq: GEOL 302) OR

GEOL 345: Igneous & Metamorphic Processes (prereq GEOL 302, MATH 122 or 141)



GEOL 355: Structural Geology & Tectonics (prereq GEOL 302, PHYS 201 or 211)

(4)



GEOL 531: Plate Tectonics (prereq: 2 -300 level GEOL courses)

(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 546 Marine Geophysics or GEOL 582: Marine Hydrodynamics

(3)

Senior Capstone Experience



GEOL 548: Environmental Geophysics

(4)

(note: an approved field course may substitute)

Cognate (See: Math classes above - MATH 241, 242, 344/L and selected 500 as listed above)

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