Geophysics Degree Requirements: Carolina Core

☐ 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 credits); at least one must be from:
  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 (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; 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 (3, 3)
Overlay

A. CMS Persuasive Communication
PHIL 325; SAEL 200; SPCH 140

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

(Separate by semicolon)

Geology Courses (Pass with C or higher)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>(Credits)</th>
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<tbody>
<tr>
<td>GEOL 101, 103 or 201</td>
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<tr>
<td>GEOL 302: Rocks and Minerals</td>
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<td>(4)</td>
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<tr>
<td>GEOL 345: Igneous &amp; Metamorphic Processes (prereq GEOL 302, MATH 122 or 141)</td>
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<tr>
<td>GEOL 355: Structural Geology &amp; Tectonics (prereq GEOL 302, PHYS 201 or 211)</td>
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<td>GEOL 531: Plate Tectonics (prereq: 2-300 level GEOL courses)</td>
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<td>GEOL 554: Applied Seismology</td>
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<tr>
<td>GEOL 555: Elementary Seismology</td>
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<td>GEOL 556: Seismic Reflection Interpretation</td>
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<tr>
<td>GEOL 575: Numerical Modeling for Earth Science Applications</td>
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<td>GEOL 582: Marine Hydrodynamics or GEOL 546 Marine Geophysics</td>
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Senior Capstone Experience

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>GEOL 548: Environmental Geophysics</td>
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(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)