

Major Map: Geological Sciences Bachelor of Science (B.S.)

Geophysics Concentration College of Arts and Sciences School of Earth, Ocean and Environment

Bulletin Year: 2024-2025

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study

Credit Min. Major Hours Grade GAZ Sensist One (14 Gredit Hours) Sensist One (14 Gredit Hours) FIRGL 10 Ching Residing and Composition 3 C CC-CMW MATH 141 Calculus 4 C C CC-ARP C or better in MATH 115 or Math placement test score or GEOL 103 Environment of the Earth or GEOL 201 Observing the Earth (fall orly) JINIV 101 The Student in the University 3 PR/CC JINIV 101 The Student in the University 3 PR/CC Sensitive Total Resident 4 C C CC-ARP C or better in MATH 115 or Math placement test score or Carolina Core Requirement* 3 PR/CC Sensitive Total Resident 4 C C CC-ARP C or better in ENGL 101 CC-CMW C or better in ENGL 101 MATH 142 Calculus C C C C ARP C or better in MATH 115 or Math placement test score GEOL 305 Earth Systems through Time (spring only) 4 C C MR GEOL 305 Earth Systems through Time (spring only) 4 C C MR Foreign language* or orther Carolina Core 3 CC-GFL Requirement* Sensitive Total Resident 5 C C C C C C C C C C C C C C C C C	h <u>e Program</u>	Notes section for details regarding "critical courses" for this pa						
FNGL 101 Cinical Reading and Composition 3							Prerequisites	Notes
MATH 141 Calculus IP GEOL 101 Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the Earth or GEOL 201 Observing the Earth (Introduction to the University 3 PRICC Caroline Of Geolegic (Introduction to the University 3 PRICC Caroline Of Geolegic (Introduction Senses)					ı			
GEOL 101 Introduction to the Earth or GEOL 103 Environment of the Earth or GEOL 103 Environment of the Earth or GEOL 201 Observing the Earth (all only) JINIV 101 The Student in the University 3 PRICC JUNIV 101 The Student in the University 3 PRICC Semester Two (18 Credit Hours) I ENGL 102 Rehetors and Composition 3 C CC-CMW C or better in ENGL 101 CCHEM 111 A 111 — General Chemistry I 4 C CC-ARP C or batter in MATH 141 CHEM 111 A 111 — General Chemistry I 4 C CC-ARP C or batter in MATH 141 or Math placement test score 3 CC-GFL GEOL 305 Earth Systems through Time (spring only) 4 C MR Foreign language* or other Carolina Core 3 CC-GFL Semester Three (17 Credit Hours) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 302 Rooks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 For Parks) GEOL 303 Rooks and Minerals (fall only) 4 C MR GEOL 302 & PHYS 201 (CHEM 1111 FOR PARKS) Carolina Core Requirement* 3 CC-GFL Semester Twe (17 Credit Hours) GEOL 305 Struct Geol & Tectnics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Officernitie Equations 3 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Officernitie Equations 3 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Officernitie Equations 3 C MR C Or better in MATH 142 PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — General Physics II or PHYS 202 & 202 — Gene								
or GEOL 201 Closerving the Earth (all only) JNIV 101 The Student in the University or Carolina Core Requirement* Semester Two (18 Credit Hours) ! ENGL 102 Rehotice and Composition ! ENGL 103 Rehotice and Composition ! ENGL 103 Rehotice and Composition ! ENGL 104 Rehotice and Composition ! ENGL 104 Rehotice and Composition ! ENGL 105 Earth Systems through Time (spring only) 4 C MR GEOL 305 Earth Systems through Time (spring only) 4 C MR GEOL 302 Rocks and Minerals (fail only) GEOL 302 Rocks and Minerals (fail only) GEOL 302 Rocks and Minerals (fail only) MATH 241 Vector Calculus 3 C MR GEOL 101, 103, or 201 (CHEM 111)				С				
Or GEOL, 201 Observing the Earth (fall only)			4			PR		
UNIV 101 The Student in the University or Carolina Core Requirement* Senestor Two (18 Credit Hours) I ENGL 102 Rehetiors and Composition 3 C CC-CMW C or better in ENGL 101 CREM 111 & 1111.— General Chemistry I 4 C CC-SCI C or better in MATH 141 CHEM 111 & 1111.— General Chemistry I 4 C CC-SCI C or better in MATH 141 GHEM 111 & 1111.— General Chemistry I 4 C CC-SCI C or better in MATH 141 GHEM 111 & 1111.— General Chemistry I 4 C MR Placement test score GEOL 305 Earth Systems through Time (spring only) 4 C MR Placement test score GEOL 302 Rocks and Minerals (rail only) 4 C MR GEOL 101, 103, or 201 (CHEM 111) GEOL 302 Rocks and Minerals (rail only) 4 C MR C recommended) MATH 241 Vector Calculus 3 C MR C or better in MATH 142 PHYS 201 & 2011.— General Physics I 7110 CC-SCI C or better in MATH 142 Carolina Cree Requirement* 3 CC-GFL Georgia Inaquage [©] or other Carolina Core Requirement* 3 CC-GFL Georgia Inaquage [©] or other Carolina Core Requirement* 3 CC-GFL Georgia Inaquage [©] or other Carolina Core Requirement* 3 CC-GFL GEOL 355 Struct. Geol & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Differential Equations 3 C MR C or better in MATH 142 GEOL 355 Struct. Geol & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Differential Equations 3 C MR C or better in MATH 142 FINS 202 & 2021.— General Physics II or CHEM 112 & 112.— General Physics II or CHEM 112 & 11								
or Carolina Core Requirement' Semester Fow (14 Cardit Hours) 1 ENGL 102 Rhetoric and Composition 2 CC-CMF CC-NF NR CC-GFL Requirement Semester Three (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) MATH 241 Vector Calculus MATH 241 Vector Calculus MATH 241 Vector Calculus PHYS 201 & 2011. – General Physics I CARDINA CA								
Semester Two (18 Credit Hours)	l l		3			PR/CC		
FNGL 102 Rhetoric and Composition								
MATH 142 Calculus					ı			
MATH 142 Calculus II 4 C C-C-ARP C or better in MATH 141 CHEM 111 & 1111. — General Chemistry I 4 C C-SCI C or better in MATH 145 or Math placement test score SEMESTER TIRES (17 Credit Hours) GEOL 305 Earth Systems through Time (spring only) 4 C MR Foreign language* or other Carolina Core Requirement* Semester Tires (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 recommended) MATH 241 Vector Calculus 3 C MR C or better in MATH 142. PHYS 201 & 201 L.—General Physics I or PHYS 201 & 201 L.—General Physics I declared in MATH 211 L.—Essentials of Physics I or PHYS 211 & 211 L.—Essentials of Physics I declared in MATH 211 Interest in MATH 141 (PHYS 201); MATH 142 Elementary Differential Equations 3 C C-GFL Semester Total (12 Credit Hours) GEOL 355 Struct Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 Or PHYS 212 & 212 L.—Essentials of Physics II or CHEM 112 & 112 L.—General Physics II or CHEM 112 & 112 L.—General Chemistry II or BIOL 101 & 101 L.—Biological Phrinciples I for eight of the Math 142 for CHEM 112 & 112 L.—General Chemistry II or BIOL 101 & 101 L.—Biological Phrinciples I for CHEM 112 & 112 L.—General Chemistry II or Disological Phrinciples I for CHEM 112 & 112 L.—General Chemistry II or Disological Phrinciples I for CHEM 112 & 112 L.—General Chemistry II or CHEM 112 & 1	!	ENGL 102 Rhetoric and Composition	3	С			C or better in ENGL 101	
CHEM 1118. I 111. — General Chemistry I 4 CC. SCI C or better in MATH 115 or Math placement test score SEOL 305 Earth Systems through Time (spring only) 4 C MR CC-GFL Semester Titreo (17 Credit Hours) SEOL 302 Rocks and Minerals (fall only) 4 C MR GEOL 101.103, or 201 (CHEM 111 recommended) MATH 241 Vector Calculus 3 C MR CO-better in MATH 1142 PHYS 201 & 201 L.—General Physics I Or PHYS 210 & 201 L.—Essentials of Physics I CC-SCI C or better in MATH 1141 (PHYS 201) Carolina Core Requirement* Semester Force (14 Credit Hours) Sensester Four (14 Credit Hours) GEOL 303 & Technist I General Physics II Or CHEM 112 & 112 L.—Essentials of Physics II Or CHEM 112 & 112 L.—General Chemistry II Or PHYS 212 & 212 L.—Essentials of Physics II Or CHEM 112 & 112 L.—General Chemistry II Or PHYS 213 & CC. MR Core better in MATH 142 PHYS 201 or 211 Chemistry II Or PHYS 214 & 212 L.—Essentials of Physics II Or CHEM 112 & 112 L.—General Chemistry II Or PHYS 212 & 212 L.—General Chemistry II Or PHYS 212 & 212 L.—General Chemistry II Or PHYS 212 & 212 L.—General Chemistry II Or PHYS 213 & CR. CO. Senseter Force (14-15 Gredit Hours) GEOL 315 Straticaphy & Sed. Basins (fall only) 4 C MR Dor better in GEOL 302 Senseter Five (14-15 Gredit Hours) GEOL 315 Straticaphy & Sed. Basins (fall only) 4 C MR Dor better in GEOL 302 GEOL 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only) A CR. CO. 315 Straticaphy & Sed. Basins (fall only)								
SEOL 305 Earth Systems through Time (spring only) 4 C MR Foreign language* or other Carolina Core Requirement* Semester Three (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) 4 C MR GEOL 101, 103, or 201 (CHEM 111 recommended) MATH 241 Vector Calculus 3 C MR C or better in MATH 141 (2015) PHYS 201 & 2011. — General Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 211 & 211L — Essentials of Physics I or PHYS 201 (2016) Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 or PHYS 212 & 212L — Essentials of Physics II or PHYS 212 & 212L —				С				
SEOL 305 Earth Systems through Time (spring only)		CHEM 111 & 111L – General Chemistry I	4			CC-SCI		
Foreign language* or other Carolina Core Requirement* Semester Three (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) MATH 241 Vector Calculus PHYS 201 & 201L – General Physics I Or PHYS 211 & 211L – Essentials of Physics I Semester or (14 Credit Hours) GEOL 302 Rocks and Minerals (fall only) Carolina Core Requirement* 3 CC Garolina Core Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) GEOL 355 Struct. Geol. & Tectonics (spring only) Or CHEM 112 & 112L – Essentials of Physics II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Foreign language* or Carolina Core Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) GEOL 355 Struct. Geol. & Tectonics (spring only) GEOL 355 Struct. Geol. & Tectonics (spring only) Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Foreign language* or Carolina Core Requirement* Semoster Five (14.15 Gredit Hours) GEOL 310 Surface & Subsurface Hydrology Or GEOL 315 Surface & Near Surface Processes or GEOL 371 A view of the River Or CECOL 371 A view of the River Or CHEM 12 & 212L – General Chemistry II Or PHYS 212 & 212L – General Chemistry II Or PHYS 212 & 212L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemistry II Or CHEM 112 & 112L – General Chemist							placement test score	
Requirement* Semester Trace (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) ATH 241 Vector Calculus MATH 241 Vector Calculus ATH 241 Vector Calculus ATH 241 Vector Calculus PHYS 201 & 201L – General Physics I or PHYS 211 & 211L – Essentials of Physics I Carolina Core Requirement* Carolina Core Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Gene & Technology GEOL 355 Struct. Gene & Technology Foreign language* or other Carolina Core 3 CC-GFL Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Gene & Technology GEOL 355 Struct. Gene & Technology GEOL 302 & 202L – General Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 101 & 101L — Biological Phrinciples I Foreign language* or Carolina Core Requirement* GEOL 305 Struct. General Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 101 & 101L — Biological Phinciples I Foreign language* or Carolina Core Requirement* GEOL 305 Straigraphy & Sed. Basins (fall only) GEOL 325 Straigraphy & Sed. Basins (fall only) GEOL 315 Surface & Subsurface Hydrology or GEOL 315 Surface & Subsurface Hydrology or GEOL 315 Vurdeous & Subsurface Hydrology or GEOL 316 Vurdeous & Subsurface Hydrology or GEOL 317 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I GEOL 502 Principles of Geomorphology or GEOL 570 Invinomental Hydrogeology Or GEOL 570 Invinomental Hydrogeology or GEOL 570 Invinomental Geomorphology or GEOL 581 Pital Tectonics or GEOL 584 Physics II or CHEM 112 & 112L – General Chemistry II or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR Summer (4-6 Credit Hours) GEOL 505 Filed Geology (summer only) 4-6 C MR GEOL 325 & 355				С				
Semester Times (17 Credit Hours) GEOL 302 Rocks and Minerals (fall only) MATH 241 Vector Calculus PHYS 201 & 201L - General Physics I OF PHYS 211 & 211L - Essentials of Physics I Carolina Core Requirement* Semester Foruc (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) OF CHEM 112 & 112L - Essentials of Physics II OF CHEM 112 & 112L - Essentials of Physics II OF CHEM 112 & 112L - Essentials of Physics II OF CHEM 112 & 112L - Essentials of Physics II OF CHEM 112 & 112L - Essentials of Physics II OF CHEM 112 & 112L - General Chemistry II OF CHEM 112 & 112L - General Chemistry II OF GEOL 315 Stratega New Surface Processes or GEOL 315 Strates & New Surface Processes or GEOL 315 New See Bulletin Iisting. GEOL 301 Surface & Subsurface Hydrology OF GEOL 315 Company See See Subsurface Processes or GEOL 317 A view of the River or General Physics II OF PHYS 202 & 202L - General Physics II OF CHEM 112 & 112L - General Chemistry II OF GEOL 315 Surface & News Surface Processes or GEOL 317 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L - General Physics II OF PHYS 212 & 212L - General Chemistry II OF CHEM 112 & 112L - General Chemistry II OF CHEM 112 & 112L - General Chemistry II OF CHEM 112 & 112L - General Chemistry II OF CHEM 112 & 112L - General Chemistry II OF GEOL 317 A view of the River or GEOL 371 A view of the River or GEOL 570 Principles II OF PHYS 212 & 212L - Essentials of Physics II OF CHEM 112 & 112L - General Chemistry II OF GEOL 502 Principles of Geomorphology OF GEOL 502 Indiciples of Casafal Geomorphology OF GEOL 503 Physics II OF CHEM 112 & 112L - General Chemistry II OF GEOL 575 Numerical Modeling for Earth Science Applications OF GEOL 575 Numerical Modeling for Earth Science Applications OF CEOL 575 Numerical Modeling for Earth Science Applications OF CEOL 575 Numerical Modeling for Earth Science Applications OF CEOL 500 Field Geology' (summer only) OF CEOL 500 Field Geology (summer only)			3			CC-GFL		
GEOL 302 Rocks and Minerals (fall only)								
MATH 241 Vector Calculus 3 C MR C or better in MATH 142 PHYS 201 & 201L - General Physics I 4 CC-SCI C or better in MATH 142 PHYS 201 & 201L - General Physics I 4 CC-SCI C or better in MATH 141 (PHYS 201); Carolina Core Requirement* 3 CC Garolina Core Requirement* 3 CC-GFL Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Differential Equations 3 C MR C or better in MATH 142 PHYS 202 & 202L - General Physics II or PHYS 212 & 212L - Essentials of Physics II or BIOL 101 & 101L - Biological Principles I Foreign language* or Carolina Core Requirement* 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 305 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 Department of Physics II or PHYS 212 & 212L - General Chemistry II or BIOL 101 & 101L - Biological Principles I Foreign language* or Carolina Core Requirement* 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 305 Structage & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 335 Processes of Global Envr. Change or GEOL 336 Processes of Global Envr. Change or GEOL 570 Environmental Hydrogeology PHYS 210 & 202L - General Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 102 & 102L - Essentials of Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 102 & 102L - Essentials of Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 102 & 102L - Biological Principles I History* 3 CR Semester Str. (16-17 Credit Hours) GEOL 354 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 520 Enriciples of Cestal Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Enriciples of Cestal Geomorphology or GEOL 540 Enriciples of Cestal Geomorphology or GEOL 540 Marine Geophysics or GEOL 540 Marine Geophysics or GEOL 540 Marine Geophysics or GEOL 550 Field Geology (summer only) 4-6 C MR GEOL 325 & 355	Semest	er Three (17 Credit Hours)						
MATH 241 Vector Calculus		GEOL 302 Rocks and Minerals (fall only)	4	С		MR	•	
PHYS 201 & 201L - General Physics I or PHYS 211 & 211L - Essentials of Physics I Carolina Core Requirement ⁴ Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 411 (PHYS 211) GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 424 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 424 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 424 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 424 Elementary Differential Equations GEOL 365 Struct. Geol. & Tectonics (spring only) MATH 424 Elementary Differential Equations GEOL 364 Z02L - General Physics II Or PHYS 212 & 212L - Essentials of Physics II Or CHEM 112 & 112L - General Chemistry II Or BIOL 101 & 101L - Biological Principles I GEOL 325 Stratigraphy & Sed. Basins (fall only) GEOL 315 Surface & Subsurface Phydrology Or GEOL 355 Stratigraphy & Sed. Basins (fall only) GEOL 315 Surface & Subsurface Phydrology Or GEOL 350 Processes of Global Envr. Change Or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L - General Physics II Or CHEM 112 & 112L - General Chemistry II GEOL 570 Finiciples of Geomorphology Or GEOL 550 Principles of Geomorphology Or GEOL 550 Principles of Geomorphology Or GEOL 550 Principles of Geomorphology Or GEOL 550 Solve (Geomorphology or GEOL 550 Principles of Costatal Geomorphology Or GEOL 550 Principles of Geomorphology Or GEOL 550 Isotropies of Costatal Geomorphology Or GEOL 550 Isotropies of Cost							/	
or PHYS 211 & 211 L - Essentials of Physics I Carolina Core Requirement* 3 CC Foreign language* or other Carolina Core Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations 3 C MR C or better in MATH 142 PHYS 202 & 2012 General Physics II or PHYS 212 & 212 Essentials of Physics II or CHEM 112 & 112 General Chemistry II or BIOL 101 & 1011 Biological Principles I Foreign language* or Carolina Core Requirement* 3 CR/CC Semester Five (1415 Credit Hours) GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Stratigraphy & Sed. Basins (fall only) GEOL 316 Stratigraphy & Sed. Basins (fall only) GEOL 316 Stratigraphy & Sed. Basins (fall only) GEOL 315 Stratigraphy & Sed. Basins (fall only) GEOL 316 Stratigraphy & Sed. Basins (fall only) GEOL 317 A view of the River Or GEOL 501 Environmental Hydrogeology PHYS 202 & 202L - General Physics II Or CHEM 112 & 112L - General Chemistry II Or BIOL 102 & 102L - Biological Principles I GEOL 501 Principles of Geomorphology Or GEOL 502 Principles of Geomorphology Or GEOL		MATH 241 Vector Calculus		С				
Carolina Core Requirement ⁴ Carolina Core Requirement ⁴ Foreign language ⁶ or other Carolina Core Requirement ⁸ Semester Foreign (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 442 Elementary Differential Equations PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or BIOL 101 & 101L – Biological Principles I Foreign language ⁶ or Carolina Core Requirement ⁴ Semester Five (14-15 Credit Hours) GEOL 355 Stratigraphy & Sed. Basins (fall only) GEOL 315 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 337 A view of the River or GEOL-570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or PHYS 212 & 212L – Essentials of Physics II or PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or PHYS 212 & 212L – Essentials of Physics II or PHYS 212 & 212L – Seneral Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 301 Principles of Geomorphology or GEOL 501 Principles of Geomorphology or GEOL-502 Principles of Castal Geomorphology or GEOL-503 Principles of Castal Geomorphology or GEOL-504 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 550 Finic Geology' (summer only) GEOL 500 Finic Geology' (summer only) GEOL 500 Finic Geology' (summer only) GEOL 500 Finic Geology' (summer only) 4-6 C MR GEOL 325 & 355			4			CC-SCI		
Carolina Core Requirement ⁴ Foreign language ⁵ or other Carolina Core Requirement ⁸ Semester Four (14 Oracift Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations GEOL 355 Struct. Geol. & Tectonics (spring only) MATH 242 Elementary Differential Equations GEOL 310 Surface & Subsurface Physics II Or CHEM 112 & 112L. General Chemistry II Or BIOL 101 & 101L. Biological Principles I Foreign language ⁶ or Carolina Core Requirement ⁴ GEOL 310 Surface & Subsurface Phydrology Or GEOL 310 Surface & Subsurface Phydrology Or GEOL 315 Surface & Subsurface Phydrology Or GEOL 315 Surface & Near Surface Processes Or GEOL 335 Processes of Global Envr. Change Or GEOL 317 A view of the River Or GEOL. S71 A view of the River Or GEOL. S72 Elemental Physics II Or CHEM 112 & 112L. General Chemistry II Or BIOL 102 & 102L – Biological Principles I History GEOL 520 Elemental Physics II GEOL 345 Igneous & Metamorphic Proc. (spring only) GEOL 501 Principles of Geomorphology Or GEOL 520 Principles of Coastal Geomorphology Or GEOL 531 Plate Tectonics Or GEOL 548 Environmental Geophysics Or GEOL 548 Environmental Geophysics Or GEOL 548 Environmental Geophysics Or GEOL 540 Principles of Castal Geomorphology Or GEOL 550 Principles of Geomorphology Or GEOL 550 Principles of Castal Geomorphology Or GEOL 550 Principles of Castal Geomorphology Or GEOL 550 Find Geology (summer only) Semester Statistical Methods I GEOL 560 Find Geology (summer only) GEOL 500 Find Geology (summer only)		or PHYS 211 & 211L – Essentials of Physics I						
Foreign language® or other Carolina Core Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211 MATH 242 Elementary Differential Equations 3 C MR C or better in MATH 142 PHYS 202 & 202L - General Physics II or PHYS 212 & 212L - Essentials of Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 101 & 101L - Biological Principles I Foreign language® or Carolina Core Requirement* 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR D or better in GEOL 302 GEOL 315 Surface & Near Surface Processes or GEOL 352 Stratigraphy & Sed. Basins (fall only) 4 C MR See Bulletin listing. GEOL 315 Surface & Near Surface Processes or GEOL 354 Stratigraphy & Sed. Basins (fall only) 4 C MR See Bulletin listing. GEOL 315 Surface & Near Surface Processes or GEOL 354 Stratigraphy & Sed Basins (fall only) 4 C MR See Bulletin listing. GEOL 352 Stratigraphy & Sed. Basins (fall only) 4 C MR See Bulletin listing. GEOL 316 Surface & Near Surface Processes or GEOL 354 Surface Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 102 & 102L - Biological Principles I History® 3 CR Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 502 Principles of Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Hydrogeology or GEOL 530 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 548 Invitromental Geophysics or GEOL 548 Invitromental Geophysics or GEOL 550 Principles IMplications STAT 515 Statistical Methods 1 3 CR Summer (4-6 Credit Hours) GEOL 500 Fried Geology (summer only) 4-6 C MR GEOL 325 & 355							MATH 141 <i>(PHYS 211)</i>	
Requirement* Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only)								
Semester Four (14 Credit Hours) GEOL 355 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211			3			CC-GFL		
GEOL 355 Struct. Geol. & Tectonics (spring only) 4 C MR GEOL 302 & PHYS 201 or 211		Requirement ⁴						
MATH 242 Elementary Differential Equations PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 101 & 101L – Biological Principles I Foreign language ⁵ or Carolina Core Requirement ⁴ 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 335 Stratigraphy & Sed. Basins (fall only) GEOL 315 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 315 Frocesses of Global Envr. Change or GEOL 317 A view of the River or GEOL 371 A view of the River or GEOL 371 A view of the River or GEOL 537 Principles of Ceneral Chemistry II or DHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History Semester Six (16-17 Credit Hours) GEOL 350 Principles of Geomorphology or GEOL 530 Principles of Gosatal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 530 Isotope Geology and Geomorphology or GEOL 530 Isotope Geology and Geomorphology or GEOL 530 Isotope Geology and Geomorphology or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 558 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Jumanities or Fine Arts CR Summer (4-6 Credit Hours) GEOL 500 Field Geology' (summer only) GEOL 500 Field Geology' (summer only) 4-6 C MR GEOL 325 & 355								
PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 101 & 101L – Biological Principles I Foreign language ⁵ or Carolina Core Requirement ⁴ Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) GEOL 325 Stratigraphy & Sed. Basins (fall only) GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 501 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) GEOL 502 Principles of Coastal Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 546 Marine Geophysics or GEOL 547 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CR Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355		GEOL 355 Struct. Geol. & Tectonics (spring only)	4	С		MR	GEOL 302 & PHYS 201 or 211	
or PHYS 212 & 212L - Essentials of Physics II or BIOL 101 & 101L - Biological Principles I Foreign language* or Carolina Core Requirement* 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR D or better in GEOL 302 GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L - General Physics II or CHEM 112 & 112L - General Chemistry II or BIOL 102 & 102L - Biological Principles I History* Semester Six (16-17 Credit Hours) GEOL 351 Surface & Near Surface Processes or Global Envr. Change or GEOL 570 Environmental Geophysics or GEOL 520 Isotope Geology and Geomorphology or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 558 Stumerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Summer (4-6 Credit Hours) GEOL 500 Field Geology* (summer only) 4-6 C MR GEOL 325 & 355			3	С		MR		
or CHEM 112 & 112 L – General Chemistry II or BIOL 101 & 101 L – Biological Principles I Foreign language* or Carolina Core Requirement ⁴ 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR D or better in GEOL 302 GEOL 315 Surface & Subsurface Pydrology or GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 335 Processes of Global Envr. Change or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ 3 CR Semester Six (16-17 Credit Hours) GEOL 351 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 551 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355		PHYS 202 & 202L – General Physics II	4			PR	See Bulletin listing.	
or BIOL 101 & 101L - Biological Principles I Foreign language ⁵ or Carolina Core Requirement ⁴ 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR Dor better in GEOL 302 GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L - General Physics II or CHEM 112 & 212L - Essentials of Physics II or CHEM 112 & 212L - General Chemistry II or BIOL 102 & 102L - Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 546 Marine Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355		or PHYS 212 & 212L – Essentials of Physics II						
Foreign language® or Carolina Core Requirement⁴ 3 CR/CC Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR Dor better in GEOL 302 GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L — General Physics II or CHEM 112 & 112L — General Chemistry II or BIOL 102 & 102L — Biological Principles I History® Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 546 Marine Geophysics or GEOL 546 Marine Geophysics or GEOL 545 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology² (summer only) 4-6 C MR GEOL 325 & 355								
Semester Five (14-15 Credit Hours) GEOL 325 Stratigraphy & Sed. Basins (fall only) 4 C MR D or better in GEOL 302								
GEOL 325 Stratigraphy & Sed. Basins (fall only) GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L — General Physics II or CHEM 112 & 112L — General Chemistry II or BIOL 102 & 102L — Biological Principles I History Semester Six (16-17 Credit Hours) GEOL 530 Principles of Geomorphology or GEOL 530 Inciples of Coastal Geomorphology or GEOL 531 Plate Tectonics or GEOL 532 Narine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR Summer (4-6 Credit Hours) GEOL 505 Field Geology **(summer only)** A CR Summer (4-6 Credit Hours) GEOL 506 Field Geology **(summer only)** A CR GEOL 507 Field Geology **(summer only)** A CR GEOL 508 Field Geology **(summer only)** A CR GEOL 509 Field Geology **(summer only)** A CR GEOL 500 Field Geology **			3			CR/CC		
GEOL 310 Surface & Subsurface Hydrology or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) or GEOL 502 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 502 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Jack Core Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or GEOL 315 Surface & Near Surface Processes or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History GEOL 345 Igneous & Metamorphic Proc. (spring only) GEOL 345 Igneous & Metamorphic Proc. (spring only) GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 503 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 546 Marine Geophysics or GEOL 546 Marine Geophysics or GEOL 557 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 302 Numer only) 4-6 C MR GEOL 325 & 355				С		MR	D or better in GEOL 302	
or GEOL 335 Processes of Global Envr. Change or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 505 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355		GEOL 310 Surface & Subsurface Hydrology	3-4			MR	See Bulletin listing.	
or GEOL 371 A view of the River or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or GEOL 570 Environmental Hydrogeology PHYS 202 & 202L — General Physics II		or GEOL 335 Processes of Global Envr. Change						
PHYS 202 & 202L – General Physics II or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ 3 CR Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 546 Marine Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or PHYS 212 & 212L – Essentials of Physics II or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Lumanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 322 & MATH 122 or 141 MR GEOL 302 & MATH 122 or								
or CHEM 112 & 112L – General Chemistry II or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355		PHYS 202 & 202L – General Physics II	4			PR	See Bulletin listing.	
or BIOL 102 & 102L – Biological Principles I History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
History ⁶ Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
Semester Six (16-17 Credit Hours) GEOL 345 Igneous & Metamorphic Proc. (spring only) 4								
GEOL 345 Igneous & Metamorphic Proc. (spring only) 4 MR GEOL 302 & MATH 122 or 141 GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355			3			CR		
GEOL 501 Principles of Geomorphology or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Garolina Core Requirement ⁴ GEOL 500 Field Geology ⁷ (summer only) 3-4 MR See Bulletin listing. MR See Bulletin listing. MR See Bulletin listing. MR See Bulletin listing. MR GEOL 325 & 355	Semest	er Six (16-17 Credit Hours)				•		
or GEOL 502 Principles of Coastal Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or GEOL 520 Isotope Geology and Geomorphology or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I 3 CR MATH 141 or 115 & a statistics class Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355			3-4			MR	See Bulletin listing.	
or GEOL 531 Plate Tectonics or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or GEOL 546 Marine Geophysics or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
or GEOL 548 Environmental Geophysics or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355	l l							
or GEOL 575 Numerical Modeling for Earth Science Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
Applications STAT 515 Statistical Methods I Humanities or Fine Arts Carolina Core Requirement ⁴ Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) A CR MATH 141 or 115 & a statistics class CR CR CR CR CR CR CR CR CR								
STAT 515 Statistical Methods 3								
Humanities or Fine Arts 3 CR Carolina Core Requirement ⁴ 3 CC Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
Carolina Core Requirement ⁴ 3 CC							MATH 141 or 115 & a statistics class	
Summer (4-6 Credit Hours) GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355								
GEOL 500 Field Geology ⁷ (summer only) 4-6 C MR GEOL 325 & 355			3	<u> </u>	<u> </u>	CC		
				1 -				
		GEOL 500 Field Geology' (summer only)	4-6	С			GEOL 325 & 355	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1]		CC-INT		

Semester Seven (12 Credit Hours)						
CSCE 106 Scientific Applications Programming	3			CR	C or better in MATH 122 or 141	
Social Science	3			CR		
Carolina Core Requirement ⁴ or Approved Elective ⁸	3			CC/PR		
Carolina Core Requirement ⁴ or Approved Elective ⁸	3			CC/PR		
Semester Eight (12 Credit Hours)						
GEOL 365 Data Science in Earth, Ocean & Envr. Sci.	3	С		MR	C or better in STAT 515, CSCE 106 or	
(cross-listed: ENVR 365, MSCI 365) (fall only)					higher, & in MATH 142 or higher	
Approved Elective ⁸	3			PR		
Approved Elective ⁸	3			PR		
Approved Elective ⁸	3			PR		

Graduation Requirements Summary

Minimum Total Hours	Minimum Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours	Minimum Institutional GPA
120	39	36-48	34-46	2.000

- 1. Regardless of individual course grades, students must maintain a minimum 2.000 cumulative GPA.
- 2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
- 3. Students who place into MATH 111 (through the algebra placement test) or 115 (through the calculus placement test) will be required to complete it successfully before taking MATH 122 or 141. MATH 111/115 may be used as an approved elective. Students who start with MATH 111/115 should use the following sequence for the first three semesters:

Semester One	Semester Two	Semester Three
ENGL 101	ENGL 102	GEOL 325
GEOL 101, 103 or 201	MATH 122 or 141	GEOL 345
MATH 111 <i>or</i> 115	CHEM 111 & 111L	MATH 170 or 142
UNIV 101 or Carolina Core Requirement	GEOL 302	PHYS 201 & 201L or 211 & 211L
Foreign language <i>or</i> other Carolina Core Req.	Foreign Language or other Carolina Core Req.	Foreign language or Carolina Core Reg.

- 4. The Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
- 5. Students in the College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.
- 6. The College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.
- 7. GEOL 500 is a summer course, which takes place in the American West. Students must indicate to the SEOE undergraduate office their plans to attend field camp in January, which is prior to registering GEOL 500.
- 8. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Program Notes:

- Courses identified as "critical" must be completed in the student's first 60 semester hours of work in order for these courses to be credited toward graduation.
- All undergraduate students must take a 3-credit course or its equivalent with a passing grade that covers the founding documents. This course may fulfill any requirement in the program of study. Courses that meet this requirement are listed in the academic bulletin.
- A Degree with Distinction is available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Requirements include: 1) a minimum GPA of 3.5 in the major and 3.3 overall; 2) written sponsorship agreement from the faculty mentor on file in the SEOE Undergraduate Student Services office; 3) a public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment Geological Sciences degree; and 4) three courses in addition to the general major requirements, including: GEOL 498 or GEOL 499, GEOL 699, and a minimum of one GEOL 500-level course appropriate to the research.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia. However, please note that GEOL 500, while considered "in residence," occurs in Colorado.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the Carolina Core page on the University website.

sicase visit the datalina date page on the onliversity website.					
Codes:					
CC	Carolina Core	CC-INF	Carolina Core – Information Literacy		
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course		
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy		
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core - Values, Ethics, and Social Responsibility		
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component	CR	College Requirement		
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement		
CC-GHS	Carolina Core – Historical Thinking	PR	Program Requirement		
CC-GSS	Carolina Core – Social Sciences				

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.