GEOLOGY
AND
ENVIRONMENTAL
GEOSCIENCES
THE SHOW MUST GO ON

Geology Club
HYBRID MEETINGS

Shenanigans
ROXY & TRISARAHTOPS
MEET PRESIDENT HSU

Field Trips
GEOL 291L AT GADSDEN CREEK

Field Studies & Research
UNDERGRADS IN MONTANA

COLLEGE of CHARLESTON
DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL GEOSCIENCES
GEOLOGY CLUB

Officers
PRESIDENT: COLE BUDI
VP: TYLER ROBERTS
TREASURER: JORDAN JAMES
TREASURER: KC PETERSON
SECRETARY: OLIVIA GONZALEZ
SOCIAL CHAIR: AUDREY HAYES
OUTREACH CHAIR: NATHAN FIELDER

Mission
- SCHOLARSHIP & PROFESSIONAL NETWORKING IN THE EARTH SCIENCES
- EMPHASIS ON PROFESSIONAL GROWTH & SOCIAL & EDUCATIONAL ADVANCEMENT

Membership Requirements
- 10+ COMPLETED CREDITS IN GEOL COURSES
- 3.00 GPA IN GEOL COURSES
- 2.67 OVERALL GPA
- $25 INITIATION FEE
- $15/YR MEMBERSHIP DUES
THE GEOLOGY PROGRAM AT THE COLLEGE OF CHARLESTON OFFERS STUDENTS OPPORTUNITIES TO STUDY EARTH SCIENCE FROM THE DEEPEST PARTS OF THE OCEAN TO THE FAR REACHES OF SPACE. REQUIRED COURSES PREPARE STUDENTS WITH WELL-ROUNDED GEOLOGIC KNOWLEDGE WHILE A VARIETY OF ELECTIVE COURSES ALLOW STUDENTS TO CUSTOMIZE THE DEGREE TO THEIR OWN INTERESTS. BY OFFERING A BACHELOR OF SCIENCE AND A BACHELOR OF ARTS, STUDENTS CAN FURTHER TAILOR THEIR DEGREE TO THEIR OWN GOALS AND INTERESTS, LEADING TO A VARIETY OF CAREERS, INCLUDING GEOTECHNICAL CONSULTING, STATE AND FEDERAL GEOLOGICAL SURVEYS, PALEONTOLOGY, ENERGY OR MINERAL RESOURCES, MARINE GEOLOGY, SPACE SCIENCE, NATURAL HAZARDS, GIS AND REMOTE SENSING STUDIES, AND MANY OTHERS. A DEGREE IN GEOLOGY PROVIDES STUDENTS WITH HANDS-ON RESEARCH OPPORTUNITIES THROUGH EXPERIENTIAL LEARNING TO TACKLE THE CHALLENGING PROBLEMS FACING EARTH TODAY.
STEP 1
GEOL 103: Environmental Geology
MATH 120: Introductory Calculus*
GEOL 105: Earth History
CHEM 111: Principles of Chemistry
BIOL 101/111 or PHYS 101/111: Concepts & Applications in Biology/Intro to Cell & Molecular Biology or Intro Physics/General Physics

STEP 2
GEOL 250 or CHEM 112: Intro to Geochemistry^ or Principles of Chemistry
GEOL 256: Mineralogy & Petrology**
GEOL 272: Stratigraphy & Sedimentation^
GEOL 291: Water Resources
GEOL 333: Paleobiology^
GEOL 352: Structural Geology**
BIOL 102/112 or PHYS 102/112: Concepts & Applications in Biology II/Evolution, Form, & Function or Intro Physics II/General Physics II
MATH 220 or MATH 250: Calculus II or Statistics

STEP 3
GEOL 303 or 491: Independent Study or Senior Thesis
GEOL 492: Senior Seminar
GEOL Elective (2)
Field Studies Course (summer)

*GEOL B.S. majors should take MATH 101 (if needed) and then MATH 111 to prep for MATH 120
** Usually Fall only
^ Usually Spring only

GEOL B.S.

UNIVERSITY REQUIREMENTS

HUMANITIES
12 credits from approved humanities courses with no more than 6 from the same discipline

FIRST YEAR EXPERIENCE
FYE or HONS BGS (Beyond George Street)

ENGLISH
English 110 or a combination or approved courses

FOREIGN LANGUAGE
Completion of 202 or its equivalent

HISTORY
Pre-modern History
Modern era History

SOCIAL SCIENCE
Social Science 1
Social Science 2
**HUMANITIES**
12 credits from approved humanities courses with no more than 6 from the same discipline

**FIRST YEAR EXPERIENCE**
FYE or HONS BGS (Beyond George Street)

**ENGLISH**
English 110 or a combination or approved courses

**FOREIGN LANGUAGE**
Completion of 202 or its equivalent

**HISTORY**
Pre-modern History
Modern era History

**SOCIAL SCIENCE**
Social Science 1
Social Science 2

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**UNIVERSITY REQUIREMENTS**

**STEP 1**
- GEOL 103: Environmental Geology
- MATH 111: Pre-Calculus
- GEOL 105: Earth History
- CHEM 111: Principles of Chemistry
- BIOL 101/111 or PHYS 101/111: Concepts & Applications in Biology/Intro to Cell & Molecular Biology or Intro Physics/General Physics

**STEP 2**
- GEOL 250 or CHEM 112: Intro to Geochemistry or Principles of Chemistry
- GEOL 256: Mineralogy & Petrology
- GEOL 272: Stratigraphy & Sedimentation
- GEOL 291: Water Resources
- GEOL 333: Paleobiology
- GEOL 362: Structural Geology
- BIOL 102/112 or PHYS 102/112: Concepts & Applications in Biology II/Evolution, Form, & Function or Intro Physics II/General Physics II
- MATH 250: Statistics

**STEP 3**
- GEOL 303 or 491: Independent Study or Senior Thesis
- GEOL 492: Senior Seminar
- GEOL Elective (2)

*GEOL B.A. majors should take MATH 101 (if needed) to prep for MATH 111
** Usually Fall only
^ Usually Spring only
GEOL 103: Environmental Geology
GEOL 105: Earth History

12 CREDIT HOURS IN APPROVED COURSES

GEOL 107: Intro to Coastal & Marine Geology
GEOL 206: Planetary Geology
GEOL 213: Natural Hazards
GEOL 235: Geology and Civilization
GEOL 239: Intro to Seafloor Mapping
GEOL 257: Marine Geology
GEOL 260: NASA Space Mission Design
GEOL 314: Intro to Remote Sensing
GEOL 320: Earth Resources
GEOL 333: Paleobiology
GEOL 402: Geospatial Science
GEOL 438: Hydrogeology

+ Field Studies and more!
ENVIRONMENTAL GEOSCIENCES is a dynamic interdisciplinary program that will prepare students for the challenging nature of environmental problems to include climate change, emerging pollutants, alternate energy sources, and sustainable solutions.

Earth Systems
Water Resources
Pollution

Experiential Learning
Critical Zone Science
Coastal Resiliency
NEW PROGRAM

GEOINFORMATICS

MINOR

CORE
ENVIRONMENTAL GEOLOGY
COMPUTER PROGRAMMING
DATABASE
GEOSPATIAL SCIENCE

ELECTIVES
REMOTE SENSING [DRONES]
SUSTAINABLE URBANISM & PLANNING
REAL ESTATE MARKET ANALYSIS
ECONOMICS OF TRANSPORTATION
SEAFLOOR RESEARCH
ZOOGEOGRAPHY
& more!

21 credit hour minor

15 hours of required courses
GEOL 103, 103L
DATA 210
CSCI 220, 220L
GEOL 402

6 elective credits

AVAILABLE NOW
FIELD STUDIES

Past Trips

- NEW MEXICO, UTAH, & COLORADO
- WYOMING
- ECUADOR & GALAPAGOS
- INDIA
- SOUTH AFRICA

earth and sky, woods and fields, lakes and rivers, the mountain and the sea, are excellent
schoolmasters, and teach some of us more than we can ever learn from books. - John Lubbock
PERKS & RESOURCES

OVERVIEW

GEOLOGY
CLUB BROWN
BAG SEMINARS

AMPLE LAB
SPACE AND
EQUIPMENT

SENIOR ROAST &
ALOHA SHIRTING

LOCAL FIELD
OPPORTUNITIES

STATE OF THE ART
TECHNOLOGY

HANDS-ON
LEARNING
FILLED WITH INSPIRATION AND INTRIGUE.
AN INTENSE VISUAL TREAT!

ICONIC SNAPSHOTS
A COMPILATION OF PHOTOGRAPHS

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