COURSE WORK REQUIRED FOR THE

B.S. in Geology

Basic Math and Science
Chemistry (two semesters + two labs)
Calculus (four semesters)
Physics (two semesters + two labs)
Computer Programming
Differential Equations

Geology and Geological Engineering
Earth Dynamics
Earth History
Mineralogy + Elementary Petrology
Sedimentology and Stratigraphy
Geomorphology
Geographic Information Systems
Engineering Geophysics
Hydrogeology
Subsurface Site Characterization
Rock Mechanics
Geological Engineering Design
Soil Mechanics
Field Geology (two summer courses)

Geological Engineering Electives
One Geological Engineering Tech elective
Two Engineering Science electives

Engineering Science
Statics
Engineering Analysis
Mechanics of Materials
Fluid Mechanics
Soil Mechanics
Engineering Geology

Liberal Arts
Freshman Composition (two semesters)
Humanities course
Social Sciences course
Fine Arts course
Two more Social Sciences/Humanities/Fine Arts courses
Engineering Economics

* The UM B.S. in Geological Engineering program is accredited by the Engineering Accreditation Commission of ABET.

COURSE WORK REQUIRED FOR THE

B.S. in Geological Engineering

Basic Math and Science
Chemistry (two semesters + two labs)
Calculus (two semesters)
Physics (two semesters + two labs)
Computer Programming
Engineering Analysis

Geology
Earth Dynamics
Earth History
Mineralogy + Elementary Petrology
Sedimentology and Stratigraphy
Geomorphology
Paleontology
Structural and Tectonic Geology
Geographic Information Systems
Optical Mineralogy
Hydrogeology
Subsurface Site Characterization
Field Geology (two summer courses)

Geology Electives
One elective from the following list:
• Environmental Geochemistry
• Engineering Geophysics

Two other electives from additional classes

Liberal Arts
Freshman Composition (two semesters)
Social Sciences (two semesters)
Humanities (two semesters)
Applied Writing
Fine Arts course
Speech course
Engineering Economics
Scholarships

In addition to the many scholarships provided by the University of Mississippi (finaid.olemiss.edu/scholarships), other opportunities include:

- Numerous scholarships and fellowships available from the School of Engineering
- The Academic Common Market, an out-of-state tuition waiver available for B.S. in Geological Engineering students through the Southern Regional Education Board for residents of Alabama, Arkansas, Georgia, Kentucky, Louisiana, Maryland, Oklahoma, South Carolina, Tennessee, Virginia and West Virginia: olemiss.edu/info/acm
- MESG/MTAG scholarships available for Mississippi residents
- C.D. King Memorial Scholarship
- B. Beckman Society of Women Engineers Scholarship
- J.G. Douglas Scholarship
- Department and Field Camp scholarships

Median Salaries*

The median annual wage for geoscientists was $89,780 in May 2016.

Median annual salaries for geoscientists in the top industries:

- Oil and gas extraction .................................. $128,980
- Engineering services .................................   $78,250
- Management, scientific and technical consulting services ......................  $74,890
- State government ........................................    $71,820
- Colleges, universities and professional schools; state, local and private ..........  $62,270

Employment of geoscientists is projected to grow 10 percent from 2014 to 2024, faster than the average for all occupations.

*All statistics taken from: bls.gov/oes/2016-physical-and-social-science/geoscientists

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