

Geological Sciences

Civilization-saving Science for the twenty-first century

At Western Kentucky University

Department of
Earth, Environmental, Atmospheric Sciences

Degrees offered:

- **Bachelor of Science in Geological Sciences (choose one track)**
 - Environmental Earth Science
 - Geology
- **JUMP (Joint Undergraduate Masters Program)**

Why Geological Sciences?

- Student-centered active classes
- State-of-the-art analytical and computational lab experience
- Amazing field trips
- Advanced research opportunities
- Study away opportunity
- Internship and job opportunities
- Conference presentation opportunity
- Active Student Club (WKU Geology Club)
- In-State Tuition for Border States with Kentucky

Careers our Graduates Enter:

- | | | |
|----------------------------|-------------------------|------------------------------|
| • Environmental Agencies | • Land Management | • Graduate School/University |
| • Government Sectors | • Mining Industries | • GIS sectors |
| • Energy/Natural Resources | • Engineering companies | |



<https://www.wku.edu/geology/index.php>

WKU | EEAS

Earth, Environmental &
Atmospheric Sciences

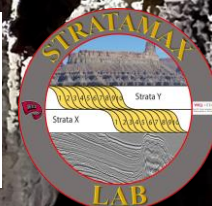
270-745-4555
Geological Sciences



Geological Sciences

For our habitable Planet!

Reynold's Lab



crawfordhydrology
laboratory

Bachelor of Science in GEOLOGICAL SCIENCES

Environmental Earth Science
track (59 hrs)

Geology
track (65 hrs)

Common Core (29 hours)

GEOL 111 The Earth
GEOL 113 The Earth Lab
GEOL 112 Earth's Past and Future
GEOL 114 Earth's Past and Future Lab
GEOL 350 Mineralogy & Petrology
GEOL 360 Sedimentology & Stratigraphy
GEOL 408 Structural Geology
GEOL 499 Professional Development
GISC 316 Fundamentals of GIS
GEOG 300 Writing in the Geosciences

Track Requirement (19 hours)

GEOL 250 – Environmental Geology
GEOL 310 – Hydrology
GEOL 415 – Applied Environmental Geology
GEOL 420 – Geomorphology

Choose **any two** from below:

GEOL 301 – Geology and climate
GEOL 311 – Oceanography
GEOL 315 – Energy, Climate & Carbon
GEOL 440 – Hydrogeology
GEOL 445 – Aqueous Geochemistry
GEOL 465 – Geophysics
Track Elective (1-credit): Selected from any
GEOL 300-or-above level course with advisor
approval.

Additional Requirements (11 hrs)

MATH 183 Introductory Statistics
CHEM 105/105 General Chemistry & Lab
BIOL 207 & 208 General Microbiology & Lab

Common Core (29 hours)

GEOL 111 The Earth
GEOL 113 The Earth Lab
GEOL 112 Earth's Past and Future
GEOL 114 Earth's Past and Future Lab
GEOL 350 Mineralogy & Petrology
GEOL 360 Sedimentology & Stratigraphy
GEOL 408 Structural Geology
GEOL 499 Professional Development
GISC 316 Fundamentals of GIS
GEOG 300 Writing in the Geosciences

Track Requirement (19 hrs)

GEOL 380 Field Techniques

Track Elective courses: (Select)

From GEOL 200-or-above level Course (GEOL 250,
GEOL 270, GEOL 301, GEOL 310, GEOL 311, GEOL
315, GEOL 405, GEOL 415, GEOL 420, GEOL 440,
GEOL 445, GEOL 465, GEOL 470 GEOL 485) and
from GEOG courses with advisor approval

Additional Requirements (17 hrs)

MATH 136 Calculus I
MATH 137 Calculus II
CHEM 120 & 121 Chemistry I & Lab
PHYS 231 & 232 Intro to Physics & Biophysics & Lab

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