



**Franklin College of
Arts and Sciences**
UNIVERSITY OF GEORGIA

CURRICULUM REQUEST FORM

Please complete a separate request for each curriculum item being submitted. Each request should include a PDF file of the curriculum item being reviewed. This form along with the file should be emailed to April Brown at albrown@uga.edu.

Date: 09/27/2023

Department/Institute/Program: Geology

Contact Person: Adam Milewski

Email Address: geohead@uga.edu

Curriculum Item Request: Proposal for New Degree or Major Programs, New Minor Proposals, or New Area of Emphasis

Please provide an explanation/justification for this request:

The submission of this minor, as well as additional curriculum updates, is a part of the overall enhancement of the direction of the Department of Geology as we align ourselves with the strategic vision of our department, discipline, and Franklin College. Our current collaborations within the industry and student focus groups indicate the need to move in this direction. Credentialization of the skills and knowledge earned through this training is critical to student success. Offering this minor to students within and outside of our department, is proof of the academic innovation we are now setting as the standard within our discipline. This broadens the marketability of graduates and closely aligns them with career competencies that makes them competitive in the current job market within our field and beyond.

Environmental Geology is an interdisciplinary field that explores the interactions between Earth's processes, landscape, and human activities, with a primary focus on addressing environmental geology challenges and promoting sustainability. This proposed minor would provide our students with valuable skills and knowledge to engage with the pressing environmental issues of our time. Environmental challenges such as natural resource management, water remediation, alternative energy storage, natural hazard mitigation, and environmental management and stewardship require a strong foundation in geology and its applications. The minor would encourage students to integrate geological principles with other disciplines, fostering a holistic understanding of environmental issues. It would also serve to meet student demand and prepare future leaders in environmental consultancy, regulatory agencies, research institutions, and non-profit organizations.

As Department Head, you are affirming that the department procedures have been followed for approval with your unit.

Adam

Milewski

Digitally signed by
Adam Milewski

Date: 2023.11.03
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PROPOSAL FOR MINOR PROGRAM OF STUDY

1. **School/College:** Franklin _____
2. **Department/Division:** Geology
3. **Minor Name:** Environmental Geology
4. **Proposed Effective Date:**
5. **Which campus(es) will offer this program?** Athens

6. Program Description:

Environmental Geology is an interdisciplinary field that explores the interactions between Earth's processes, landscape, and human activities, with a primary focus on addressing environmental geology challenges and promoting sustainability. This proposed minor would provide our students with valuable skills and knowledge to engage with the pressing environmental issues of our time. Environmental challenges such as natural resource management, water remediation, alternative energy storage, natural hazard mitigation, and environmental management and stewardship require a strong foundation in geology and its applications. The minor would encourage students to integrate geological principles with other disciplines, fostering a holistic understanding of environmental issues. It would also serve to meet student demand and prepare future leaders in environmental consultancy, regulatory agencies, research institutions, and non-profit organizations.

7. Program of Study/Requirements:

-see attached

8. Approvals:

Adam Milewski <small>Digitally signed by Adam Milewski Date: 2023.11.03 17:34:22 -04'00'</small>	Geology	
Department Head	Department	Date

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Dean	School/College	Date

Proposed Minor in Environmental Geology

Unless specified, all classes are A-F (traditional)

All students will complete a minimum of 15 credit hours, including:

Required Courses (6 to 7 hours), choose two of the following:

GEOL1121/1121L: Earth Processes and Environment, 3 or 4 hours

GEOL1122/1122L: Earth's History of Global Change, 3 or 4 hours

GEOL1250/1250L: Physical Geology, 3 or 4 hours

GEOL1260/1260L: Historical Geology, 3 or 4 hours

Elective Courses (6 hours), choose two of the following:

GEOL4030: Agrogeology

GEOL4110: Principles of Geochemistry

GEOL4130: Aqueous Environmental Geochemistry

GEOL4220: Hydrogeology

GEOL4530: Principles and Environmental Application of GIS

GEOL4540: Pedology

GEOL4550: Clay Mineralogy

GEOL4620: Exploration Geophysics

GEOL4670: Environmental Instrumental Analysis

Select at least 3 hours of elective courses from the following general Environmental Geology courses or from the other elective categories listed above:

GEOL4700L: Hydrology, Geology, and Soils of Georgia

GEOL4420: Introduction to Research in Geochemistry

GEOL4440: Introduction to Research in Hydrogeology

GEOL4960: Faculty-Mentored Undergraduate Research I

GEOL4970: Faculty-Mentored Undergraduate Research II

GEOL4980: Faculty-Mentored Undergraduate Research III

GEOL4990: Geology Thesis

ENVM3060: Principles of Resource Economics

ENVM4800: Water Resource Economics and Management

ENVE4435: Natural Resources Engineering

ENVE4530: Energy and Environmental Policy Analysis

CRSS(WASR)4660: Hydrogeochemical Characterization of Environmental Field Sites