



**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:

Department/Institute/Program: Geology

Contact Person: Dr. 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, as well as 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 more closely aligns them with career competencies that makes them competitive in the current job market within our field and beyond.

Conservation paleobiology is an Earth system science, uniting the Geosphere with the Biosphere, Atmosphere, and Hydro-Cryosphere disciplines. Fossils archive the record of life on Earth, their environments and climate, dating back 3.8 billion years. This extensive geohistorical archive is unique for understanding extinction dynamics, species origination and diversification, and most especially, biotic resilience to environmental and climatic change prior to human modification which are used to solve pressing issues of today. A conservation paleobiology minor provides the principal skill sets for interpreting the past record for conservation services and also provides experiential learning in applied environmental problems. Conservation paleobiology is complementary for undergraduates in Ecology, Biology, Anthropology, Biology, Marine Science, Geography, Wildlife Science, Natural Resource Management and Sustainability, Sustainability, Water Resources, and Parks, Recreation and Tourism Management.

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

PROPOSAL FOR MINOR PROGRAM OF STUDY




1. **School/College:** Franklin College of Arts and Sciences
2. **Department/Division:** Department of Geology
3. **Minor Name:** Conservation Paleobiology
4. **Proposed Effective Date:**
5. **Which campus(es) will offer this program?** UGA Athens Campus
6. **Provide a brief summary of the objective of the program.**

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7. **Program of Study/Requirements.** Include prefixes, numbers, and titles of required courses, as well as total credit hours (must be 15–18 hours). Include any residency requirements or grade requirements.

-see attached.

8. **Approvals:**

 _____ Department Head	 _____ Department	 _____ Date
_____ Dean	_____ School/College	_____ Date

Proposed Minor in Conservation Paleobiology

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:

GEOL1260/1260L: Historical Geology, 4 hours

OR

GEOL1122: Earth's History of Global Change, 3 hours

ECOL3530: Conservation Biology, 3 hours

GEOL4010: Life and ecologies of the past, 3 hours

Elective Courses (6 hours), choose two from the following list.

GEOL 4040/6040: Conservation paleobiology, under review by CAPA, 3 hours

GEOL 4520/6520: Paleoecology, 3 hours

FNAR(WILD) 4820/6820: Human dimensions of natural resources and wildlife conservation, 3 hours

GEOG 4040/6040: Global environmental change past and present, 3 hours (focused on Quaternary)

Select the remainder of the elective courses from the following general conservation related courses or from the other elective categories listed above (for a total of 15-18 hours):

GEOL 3350: Dinosaurs - Lifestyles of the Big and Famous in the Mesozoic, 3 hours

GEOL 4030: Agrogeology, 3 hours

GEOL 4220/6220: Hydrogeology, 3 hours

GEOL 4460: Introduction to research in paleontology, 1-3 hours

GEOL 4960: Faculty-mentored undergraduate research I, 1-6 hours

GEOL 4970R: Faculty-mentored undergraduate research II, 1-6 hours

GEOL 4980R: Faculty-mentored undergraduate research III, 1-6 hours

GEOL 4990: Geology thesis, 3 hours (S/U, Satisfactory/Unsatisfactory)

ECOL 4080/6080: Principles of integrative conservation and sustainability, 4 hours

ECOL 4010/6010: Ecosystem ecology, 3 hours

ECOL 4160/4160L: Ecology of North America, 4 hours

ECOL/FANR 4220/6220: Foundations of restoration ecology, 3 hours

ECOL(FISH)(WASR) 4310/6310: Freshwater ecosystems. 3 hours

FISH (WILD) 4520/4520L: Conservation decision making, 3 hours

GENE(ECOL) 4020W/6020W: Biotic responses to climate change in the ocean, 3 hours

GEOG (ATSC) 3180: Global climate change, causes and consequences, 3 hrs.

WILD 4100/4100L: Principle of wildlife habitat and management, 3 hours

WILD 4500/6500: Non-game and endangered species management, 3 hours

SUST 4200/6200: Interdisciplinary sustainability seminar. 1 hour, repeatable for max 2 hour credit