



University Council

February 6, 2026

UNIVERSITY CURRICULUM COMMITTEE – 2025-2026

Susan Sanchez, Chair

Agricultural and Environmental Sciences – Julie Campbell

Arts and Sciences – Casie LeGette (Arts)

Paula Lemons (Sciences)

Business – Andrew Miller

Ecology – Amanda Rugenski

Education – Amy Murphy

Engineering – David Stooksbury

Environment and Design – Katherine Melcher

Family and Consumer Sciences – Melissa Landers-Potts

Forestry and Natural Resources – Richard Chandler

Journalism and Mass Communication – Yan Jin

Law – Joe Miller

Medicine – Erica Brownfield

Pharmacy – Duc Do

Public and International Affairs – Ryan Powers

Public Health – Heather Padilla

Social Work – Jennifer Elkins

Veterinary Medicine – Paul Eubig

Graduate School – Rodney Mauricio

Ex-Officio – Provost Benjamin Ayers

Undergraduate Student Representative – Ella Colker

Graduate Student Representative – Yaw Buabeng

Dear Colleagues:

The attached proposal from the Warnell School of Forestry and Natural Resources to offer a Minor in Geospatial Applications in Natural Resources will be an agenda item for the February 13, 2026, Full University Curriculum Committee meeting.

Sincerely,

Susan Sanchez, Chair

cc: Provost Benjamin Ayers

Dr. Marisa Anne Pagnattaro

PROPOSAL FOR A MINOR PROGRAM OF STUDY

School/College: Warnell School of Forestry and Natural Resources

Department/Division: Warnell School of Forestry and Natural Resources

Minor Name: Geospatial Applications in Natural Resources

CIP: 45070200

Proposed Effective Date: Fall 2026

Which campuses will offer this program: Athens

Program Description: The application of geospatial analysis techniques is central to natural resource management and conservation. The proposed Minor in Geospatial Applications in Natural Resources will enable students to understand and utilize available spatial datasets relevant to natural resources, geospatial analysis techniques in natural resources, and appropriate pairing of data with analyses are what this minor offers. The faculty expect this minor will be attractive to a wide variety of students with interests in GIS applications in natural resources management and sustainability, specifically in ecosystem management, water and soil sciences, tourism and park management, urban tree cover management, fisheries and wildlife management, landscape sustainability, and spatial ecology, among others.

Geospatial data and analysis are central to the understanding of natural systems and management of natural resources. The ability to use GIS, GPS, and remotely sensed data are key skills for the 21st century workforce. The proposed Minor in Geospatial Applications in Natural Resources provides students with foundational training in the use of these data and tools for use in natural resource science and management.

Program of Study/Requirements:

Students are responsible for ensuring prerequisite courses are completed.

Required Courses (9 hours)

FANR 3700, Natural Resources Data Processing (3 hours)

FANR 3800, Spatial Analysis of Natural Resources (2 hours)

AND FANR 3800L, Spatial Analysis of Natural Resources Laboratory (1 hour)

FANR 5620/7620-5620L/7620L, GIS Applications in Natural Resources and Ecology (3 hours)

Electives (6 hours)

Choose 6 hours from the following:

ECOL 4450/6450-4450L/6450L, GIS for Ecologists (3 hours)

ECOL 4655S/6655S, GIS for Ecological Service-Learning (3 hours)

FANR 5630/7630, Statistical Software for Natural Resource Management (1-3 hours)

FANR 5640/7640-5640L/7640L, Unmanned Aerial Systems' (UAS) Role in Natural Resource Management (3 hours)

FANR(COFA)(FISH)(FORS)(GISC)(PRTM)(WASR)(WILD) 5950, Special Topics in Forestry and Natural Resources (1-4 hours)

FORS 4050/6050, Forest Measurements and Sampling (2 hours)*

AND FORS 4050L/6050L, Forest Measurements and Sampling Laboratory (2 hours)

FORS 5650/7650-5650L/7650L, Aerial Photogrammetry in Forestry (3 hours)
GEOG 4350/6350-4350L/6350L, Remote Sensing of Environment (3 hours)
GEOG 4430/6430-4430L/6430L, Advanced Image Analysis and Photogrammetry (3 hours)
GEOG 4450/6450, Digital Image Analysis (3 hours)
GEOG 4570/6570-4570L/6570L, Advanced Geographic Information Science (3 hours)
GEOG 4590/6590-4590L/6590L, Programming for Geographic Information Science (3 hours)
GEOG 4591/6591, Introduction to Geospatial Artificial Intelligence (3 hours)
GEOG 4592/6592, Advanced Geospatial Artificial Intelligence (3 hours)
GISC 3900, Geospatial Information Science Internship (1-3 hours)
PRTM 4700, Social Science Methods and Techniques in Natural Resources (3 hours)*
WILD 4110/6110, Wildlife Science: Design, Sampling, Analyses, and Inferences for Fish and Wildlife Populations (3 hours) AND WILD 4110L/6110L, Wildlife Science Lab (1 hour)*

*Only one of these courses may be used to fulfill this requirement.

Total = 15 hours



**UNIVERSITY OF
GEORGIA**
Odum School of Ecology

December 4 2025

C. Rhett Jackson
Associate Dean for Academic Affairs
John Porter Stevens Distinguished Professor of Water Resources
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Jackson:

The Odum School of Ecology is delighted to support the proposed minor in Geospatial Applications in Natural Resources. We offer the following course that can count towards the degree:

— ECOL 4450/6450 GIS for Ecologists

Additionally, we have a new GIS-based service-learning course that is pending CAPA approval, which may also be of interest to students in your proposed minor. That course (ECOL 4XXX) will be titled "GIS for Ecological Service-Learning".

We at the Odum School appreciate the opportunity to contribute to interdisciplinary education and workforce development to meet important societal challenges. We fully support using our courses as part of your proposed minor and look forward to future collaborations.

Sincerely,

Pejman Rohani
Associate Dean for Academic Affairs, Odum School of Ecology
Regents' Professor
UGA Athletics Association Professor
Deputy Director, Center for Influenza Disease & Emergence Research

Documentation of Approval and Notification

Proposal: Minor in Geospatial Applications in Natural Resources

College: Warnell School of Forestry and Natural Resources

Department: Warnell School of Forestry and Natural Resources

Proposed Effective Term: Fall 2026

School/College:

- Warnell School of Forestry and Natural Resources Associate Dean, Dr. Rhett Jackson, 12/18/2025
- Warnell School of Forestry and Natural Resources Dean, Dr. J. Todd Petty, 12/18/2025

Use of Course Notifications:

- Head of the Department of Geography, Dr. Deepak Mishra, 11/23/2025

Letters of Support:

- Odum School of Ecology Associate Dean, Dr. Pejman Rohani, 12/4/2025