



University Council

August 9, 2024

UNIVERSITY CURRICULUM COMMITTEE – 2024-2025

Susan Sanchez, Chair

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Law – Joe Miller

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Public Health – Tamora Callands

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Veterinary Medicine – Paul Eubig

Graduate School – Rodney Mauricio

Ex-Officio – Provost S. Jack Hu

Undergraduate Student Representative – TBD

Graduate Student Representative – TBD

Dear Colleagues:

The attached proposal from the Warnell School of Forestry and Natural Resources for a Minor in Community Forestry and Arboriculture will be an agenda item for the August 16, 2024, Full University Curriculum Committee meeting.

Sincerely,

Susan Sanchez, Chair

cc: Provost S. Jack Hu

Dr. Marisa Pagnattaro

PROPOSAL FOR MINOR PROGRAM OF STUDY

1. **School/College:** Warnell School of Forestry and Natural Resources
2. **Department/Division:** Warnell School of Forestry and Natural Resources
3. **Minor Name:** Community Forestry and Arboriculture
4. **Proposed Effective Date:** Fall 2025
5. **Which campus(es) will offer this program?** Athens
6. **CIP:** 03050800
7. **Program Description:**

The Minor in Community Forestry and Arboriculture (COFA) will focus on management of individual trees, groups of trees, and forest stands growing in urban and suburban areas, including those which grow among urban hardscapes and infrastructure. The program is designed to provide students with a foundation for seeking the International Society of Arboriculture professional certification credentials students will need upon graduation. This program will also support students if they choose to pursue the Society of American Foresters urban forester certification.

A survey of primarily Warnell School of Forestry students was undertaken in fall 2022 to gauge student interest in potential minors. Of 67 respondents, 61% indicated median or above interest in pursuing a minor in arboriculture. Of 78 respondents, 47% indicated that they believed the minor would be attractive to students outside of the Warnell School of Forestry.

8. Program of Study/Requirements:

The minor requires completion of 15-18 hours.

Required Courses (7 hours)

COFA 5001/7001, Urban Tree Management I (3 hours)

COFA 5301/7301-5301L/7301L, Community and Urban Soils and Site Development (4 hours)

Focus Course (3-4 hours)

Choose one of the following:

COFA 5010/7010-5010L/7010L, Urban Tree Management II (4 hours)

COFA 5500/7500, Community Forest Management (3 hours)

Plant Identification Courses (3-4 hours)

Choose one of the following:

FORS 3010, Dendrology (2 hours)

AND FORS 3010L, Dendrology Laboratory (1 hour)

HORT 3720, Woody Landscape Plant Identification and Use (4 hours)

PBIO 4650/6650-4650L/6650L, Plant Taxonomy (4 hours)

Electives (2-3 hours)

Choose 2-3 hours from the following:

- AAEC 3980, Introduction to Agribusiness Management (3 hours)
- AAEC 4980, Agribusiness Management (3 hours)
- AENG(CVLE) 4170, Wind and Water Erosion Prediction (3 hours)
- AENG(CVLE) 4180, Irrigation Systems Design, (3 hours)
- AGED 4340/6340, Developing Community Programs in Agriculture (3 hours)
- ANTH 4010/6010, Historical Ecology (3 hours)
- ANTH 4035/6035, Introduction to Dendrochronology (3 hours)
- ANTH 4035L/6035L, Introduction to Dendrochronology Lab (1 hour)
- ANTH 4070/6070, Cultural Ecology (3 hours)
- ANTH 4120/6120, Comparing Cities: Urban Trajectories in the Past and Present (3 hours)
- ANTH(GEOG) 4275/6275, Conservation and Development in Costa Rica (3 to 6 hours)
- ARHI 4340/6340, Art and Architecture of the City (3 hours)
- ATSC(GEOG) 4160/6160, Applied Climatology in the Urban Environment (3 hours)
- BIOL 2104H, Organismal Biology (Honors) (3 hours)
- COFA 3900, Community Forestry and Arboriculture Internship (3 hours)
- COFA 4650S/6650S, Community Forestry and Arboriculture Field Practicum (3 hours)
- COFA 5010/7010-5010L/7010L, Urban Tree Management II (4 hours)
- COFA 5500/7500, Community Forest Management (3 hours)
- CRSS 3540, Soil Morphology and Interpretation (1 to 3 hours)
- CRSS 3920, Environmental Soil Science Internship (3 hours)
- CRSS 4010-6010, Principles of Sustainable Management (3 hours)
- CRSS 4220/6220, Topics in Crop and Soil Sciences (1 to 4 hours)
- CRSS 4580/6580, Soil Erosion and Conservation (3 hours)
- CRSS 4600/6600, Soil Physics (3 hours)
- CRSS 4670/6670, Environmental Soil Chemistry (3 hours)
- CRSS(FANR) 3060, Soils and Hydrology (3 hours)
- CRSS(FANR) 3060L, Soils and Hydrology Laboratory (1 hour)
- CRSS(GEOL) 4540/6540-4540L/6540L, Pedology (3 hours)
- CRSS(HORT) 4400/6400, Agro-Ecology (3 hours)
- CRSS(HORT) 4400L/6400L, Agro-Ecology Laboratory (1 hour)
- CRSS(HORT) 4590L/6590L, Soil Fertility and Plant Nutrition Laboratory (1 hour)
- CRSS(HORT)(ECOL) 4590/6590, Soil Fertility and Plant Nutrition (3 hours)
- CRSS(MIBO) 4610/6610-4610L/6610L, Soil Microbiology (4 hours)
- CRSS(WASR) 4660/6660, Hydrogeochemical Characterization of Environmental Field Sites (3 hours)
- CVLE 4770, Urban Infrastructure Systems (3 hours)
- ECOL 3500, Ecology (3 hours)
- ECOL 3500L, Ecology Laboratory (1 hour)
- ECOL 3505H, Ecology (Honors) (3 hours)
- ECOL 3505L, Ecology Honors Laboratory (1 hour)
- ECOL 3520, Applied Field Ecology (4 hours)
- ECOL 3770S, Urban Ecology (3 hours)
- ECOL 4010/6010, Ecosystem Ecology (3 hours)
- ECOL 4010L/6010L, Ecosystem Ecology Lab (1 hour)
- ECOL 4120H, Ecology of Global Change (Honors) (2 hours)
- ECOL 4240-4240L, Physiological Ecology (4 hours)

ECOL 4800/6800-4800L/6800L, Statistical Thinking in Ecology (4 hours)
ECOL(FANR) 4220/6220, Foundations of Restoration Ecology (3 hours)
ECON 4160, Urban Economics (3 hours)
EDES 4640/6640, The History of Urban Planning (3 hours)
EDES(PLAN) 4650/6650, City Planning (3 hours)
EETH 4000, Environmental Ethics Seminar (1 hour)
EHSC 4090, Emerging Technologies: Bioremediation (3 hours)
EHSC 4350-4350L, Environmental Chemistry (3 hours)
EHSC 4400, Environmental Issues in the Developing World (3 hours)
EHSC 4900, Global Environmental and Public Health Issues (3 hours)
ENGR(ATSC)(GEOG) 4161/6161-4161L/6161L, Environmental Microclimatology (3 hours)
ENTO 3740-3740L, Insect Pest Management (4 hours)
ENTO 4500E/6500E, Biological Control (3 hours)
ENTO(CRSS)(PATH) 4740/6740, Integrated Pest Management (3 hours)
ENVE 3320, Environmental Engineering – Urban Systems (3 hours)
ENVE 3320L, Environmental Engineering – Urban Systems Lab (1 hour)
ENVE 4435/6435, Natural Resources Engineering (3 hours)
ENVE 4710, GIS for Urban Engineering, Planning, and Development (3 hours)
ENVE 4720, Urban Infrastructure Planning and Development (3 hours)
ETAP(EDUC) 8460, The Ecological Context of Urban Education (3 hours)
FANR 1100E, Natural Resources Conservation (3 hours)
FANR 3200L, Ecology of Natural Resources Laboratory (1 hour)
FANR 3200W, Ecology of Natural Resources (3 hours)
FANR 3400-3400D, Society and Natural Resources (2 hours)
FANR 4273S/6273S, Field Studies in Sustainable Development (1 to 9 hours)
FANR 5620/7620-5620L/7620L, GIS Applications in Natural Resources and Ecology (3 hours)
FANR 5620E/7620E, GIS Applications in Natural Resources and Ecology (3 hours)
FANR(MARS) 1100, Natural Resources Conservation (3 hours)
FORS 1000, Introduction to Forestry and Sustainable Resource Management (3 hours)
FORS 1000E, Introduction to Forestry and Sustainable Resource Management (3 hours)
FORS 3010, Dendrology (2 hours)
FORS 4530/6530, Wood Properties and Utilization (3 hours)
FORS 5100E/7100E, Forest Ecology (3 hours)
FORS 5650/7650-5650L/7650L, Aerial Photogrammetry in Forestry (3 hours)
FORS 5670/7670, Forestry Information Systems (3 hours)
GEOG 1111, Introduction to Physical Geography (3 hours)
GEOG 1113, Exploring Earth's Surface: Landforms and Environments (3 hours)
GEOG 1113E, Exploring Earth's Surface: Landforms and Environments (3 hours)
GEOG 3010, General Geomorphology (3 hours)
GEOG 3010E, General Geomorphology (3 hours)
GEOG 3630, Introduction to Urban Geography (3 hours)
GEOG 3630E, Introduction to Urban Geography (3 hours)
GEOG 3633, Cities and Nature (3 hours)
GEOG 3633E, Cities and Nature (3 hours)
GEOG 4040/6040, Global Environmental Change Past and Present (3 hours)
GEOG(CRSS) 4375/6375, GIS Applications in Agriculture (4 hours)
GEOG 4385/6385-4385L/6385L, Community GIS (Service Learning) (3 hours)

GEOG 4591/6591, Introduction to Geospatial Artificial Intelligence (3 hours)
GEOG 4630/6630, Advanced Urban Geography (3 hours)
GEOG 4631/6631, Race, Inequality, and the American City (3 hours)
GEOG 4632/6632, Urban Social Movements (3 hours)
GEOG 4633/6633, Urban Political Ecology (3 hours)
GEOG 4660/6660, Urban and Regional Development (3 hours)
GEOG 4810/6810, Political Ecology and Environmental Governance (3 hours)
GEOG(PBIO) 4220/6220, Ecological Biogeography (3 hours)
GEOG(PBIO) 4240/6240, Plant Geography (3 hours)
GEOL 4030/6030, Agrogeology (3 hours)
HIPR 4480/6480, Introduction to Cultural Landscapes (3 hours)
HIPR 4510/6510, Financing Historic Preservation and Revitalizing Communities (3 hours)
HIST 3170, History of American Cities (3 hours)
HORT 2990S, Understanding and Communicating with the Latino Community in the Green Industry (3 hours)
HORT 3200-3200L, Hydroponics and Controlled Environment Agriculture (4 hours)
HORT 3720, Woody Landscape Plant Identification and Use (4 hours)
HORT 4030S/6030S, Sustainable Community Food Production (3 hours)
HORT 4090/6090, Sustainable Landscape Management and Design (3 hours)
HORT 4095/6095, GPS/GIS Applications for Landscape Managers (3 hours)
HORT 4095S/6095S, GPS/GIS Applications for Landscape Managers (3 hours)
HORT(CRSS) 4430/6430, Plant Physiology (3 hours)
HORT(CRSS) 4430E/6430E, Plant Physiology (3 hours)
JURI 4790/6790, Land Use Planning (2 to 3 hours)
LAND 1600, Reading the Landscape (3 hours)
LAND 2320, Landscape Construction Processes and Materials (2 hours)
LAND 2510, History of the Built Environment I: Landscape (3 hours)
LAND 2510E, History of the Built Environment I: Landscape (3 hours)
LAND 3330, Landscape Engineering Processes and Materials (3 hours)
LAND 3340, Applied Landscape Engineering (2 hours)
LAND 3530, Planning, Design, and Analysis (3 hours)
LAND 4120/6120, Designing Healthy Places (3 hours)
LAND 4350, Soil and Stormwater Management for Landscape Architects (3 hours)
LAND 4360, Advanced Landscape Ecology (3 hours)
LAND 4370, Applied Landscape Construction (2 hours)
LAND 4370S, Applied Landscape Construction (2 hours)
LAND 4670/6670, (Re)Structuring the American Landscape (3 hours)
PATH 3530-3530L, Introductory Plant Pathology (3 hours)
PBIO 1210, Principles of Plant Biology (3 hours)
PBIO 1210L, Principles of Plant Biology Laboratory (1 hour)
PBIO 3650-3650L, Plant Ecology (4 hours)
PLAN 4420/6420, Urban Design (3 hours)
PLAN 4640/6640, History of Urban Planning (3 hours)
POLS 4640, Urban Politics (3 hours)
POLS 4640H, Urban Politics (Honors) (3 hours)
POLS 4641, The Science of Cities (3 hours)
POLS 4645E, Applied Civic Engagement (3 hours)

PRTM 4400/6400, Park Management (3 hours)
PRTM 5900/7900, Ecotourism and Sustainable Development (3 hours)
SOC 3320, Sociology of Urban Life (3 hours)
SPAN 3010, Spanish Cultural Dialogues (3 hours)
SPAN 4150, Business Spanish (3 hours)
STAT 4250/6250, Applied Multivariate Analysis and Statistical Learning (3 hours)
WASR 4500/6500, Quantitative Methods in Hydrology (3 hours)
WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L, Hydrology, Geology, and Soils of Georgia (3 hours)
WASR(FORS) 4000/6000-4000L/6000L, Forest Soil Management (4 hours)

Documentation of Approval and Notification

Proposal: Minor in Community Forestry and Arboriculture

College: Warnell School of Forestry and Natural Resources

Departments: Warnell School of Forestry and Natural Resources

Proposed Effective Term: Fall 2025

School/College:

- Warnell School of Forestry and Natural Resources Interim Dean of Academic Affairs, Dr. Rhett Jackson, 5/6/2024

Use of Course Notifications:

- Agricultural and Applied Economics Interim Department Head, Dr. Greg Colson, 7/2/2024
- Agricultural Leadership, Education, and Communication Department Head, Dr. Jennifer Waldeck, 7/25/2024
- Anthropology Department Head, Dr. Ted Gragson, 7/2/2024
- College of Environment and Design Associate Dean of Academic Affairs, Professor Ashley Steffens, 7/18/2024
- Crop and Soil Sciences Department Head, Dr. Jodi Johnson-Maynard, 8/14/2024
- Entomology Department Head, Dr. Kris Braman, 7/2/2024
- Geography Department Head, Dr. Hilda Kurtz, 8/1/2024
- Horticulture Department Head, Dr. Leonardo Lombardini, 7/2/2024
- Odum School of Ecology Associate Dean for Academic Affairs, Dr. Pejman Rohani, 7/2/2024
- Political Science Department Head, Dr. Susan Haire, 7/2/2024