

# Cover Sheet: Request 15544

## New Urban Forestry undergraduate certificate

### Info

Process	Certificate New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Timothy Martin tamartin@ufl.edu
Created	12/4/2020 11:50:22 AM
Updated	2/17/2021 1:34:31 PM
Description of request	New Urban Forestry undergraduate certificate

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Forest Resources and Conservation 60460000	Terrell Baker III		12/4/2020
catalog copy - urban certificate.docx					12/4/2020
RE_ Course in SFRC undergraduate certificate_Sociology.pdf					12/4/2020
Re_ Courses in SFRC undergraduate certificate_Geography.pdf					12/4/2020
RE_ Courses in SFRC undergraduate certificate_SWS.pdf					12/4/2020
Re_ Courses in SFRC undergraduate certificate_URP.pdf					12/4/2020
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by the CALS CC on 12/18/20.	1/6/2021
CALS CC Checklist_Dec2020.pdf					12/10/2020
Office of Institutional Planning and Research	Approved	PV - Office of Institutional Planning and Research	Cathy Lebo		1/28/2021
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		2/17/2021
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/17/2021
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					

Step	Status	Group	User	Comment	Updated
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Certificate|New for request 15544

## Info

**Request:** New Urban Forestry undergraduate certificate  
**Description of request:** New Urban Forestry undergraduate certificate  
**Submitter:** Timothy Martin tamartin@ufl.edu  
**Created:** 9/4/2020 4:42:45 PM  
**Form version:** 1

## Responses

### Certificate Name

*Enter the name of the certificate. Example: Urban Pest Management.*

Response:  
Urban Forestry

### Transcript Title

*Enter the transcript title of the certificate. This is limited to 50 characters, including spaces.*

Response:  
Urban Forestry

### Credits

*Enter the total number of credit hours needed to complete the certificate program.*

Response:  
19

### Level

*Enter the program level of the certificate.*

Response:  
Baccalaureate

### CIP Code

*Enter the six digit Classification of Instructional Programs (CIP) code for the degree program associated with the proposed certificate. The code has the numerical format XX.XXXX. Contact the Office of Institutional Planning and Research (OIPR) to verify the CIP code for the existing degree program.*

Response:  
03.0501

### Degree Program

*Enter the degree program associated with the CIP code entered above (e.g. Accounting).*

Response:  
Forest Resources and Conservation

**Effective Term**

Enter the term (semester and year) that the certificate would start. Please keep in mind that this may be adjusted depending on University deadlines for approval process.

Response:  
Earliest Available

**Effective Year**

Response:  
Earliest Available

**Certificate Description**

Enter a description of the certificate. This is limited to 50 words or fewer.

Response:  
This certificate prepares students to manage natural resources within urban and urbanizing environments. Graduates are prepared to work for municipalities, urban planning organizations, consulting firms, and similar entities involved in the planning, installation, and maintenance of urban green space.

**Requirements for Admission**

List any requirements for admission to this new certificate program such as grade point average, background in the discipline, current enrollment status, etc.. Please indicate if the certificate only accepts students of a particular status: for example, current UF graduate students, graduate students in a specific college, non-degree seeking students, or any student status.

Response:  
Students or professionals with appropriate academic and/or professional background in natural resources, natural resource management, or allied fields, as determined by the FRC/NRC Undergraduate Coordinator.

**Requirements for Completion**

List all of requirements for completion of the certificate program, such as courses, internships, projects, etc. For each course, indicate prefix, number, title, # credits, and established grading scheme (letter grade or S/U). The title should be identical to the official title of the course as listed in the [Graduate catalog](http://gradcatalog.ufl.edu/) or [Graduate catalog](http://gradcatalog.ufl.edu/).

Response:  
Core (all students take)  
FNR3131C - Dendrology / Forest Plants (letter, 3)  
FOR3342C - Tree Biology (letter, 3)  
FOR4090C - Urban Forestry (letter, 3)  
ORH4242C – Arboriculture (letter, 4)

Social Dimensions (choose one course)  
GEO3602 - Urban and Business Geography (letter, 3)  
SYD3410 - Urban Sociology (letter, 3)  
URP3001 - Cities of the World (letter, 3)  
URP4000 - Preview of Urban and Regional Planning (letter, 3)

Biophysical Dimensions (choose 3 credits)

ENY3005 Principles of Entomology (letter, 2) AND  
ENY3005L Principles of Entomology Laboratory (letter, 1)  
FOR4624C Forest Health Management (letter, 3)  
ORH3513C Environmental Plant Identification and Use (letter, 3)  
ORH3815C - Florida Native Landscaping (letter, 3)  
SWS4231C Soil, Water and Land Use (letter, 3)

### **Rationale and Place in Curriculum**

*Describe the rationale for offering this new certificate and having it on the transcript, its place in the curriculum, how it will enhance the quality of the existing program or department. Also describe its overlap with any existing certificates and programs, and a justification for any such overlap. Note that documentation of consultation will be expected for any certificate with overlapping content.*

Response:

Florida is one of the most rapidly urbanizing states in the union. Trees, forests, and green spaces in urban and urbanizing environments provide multiple well-documented benefits to people living in those environments. This certificate will enable students in natural resource management majors or careers to enhance their ability to manage trees, forests, and green spaces in urban environments for the benefit of people living there.

### **Student Learning Outcomes**

*List each student learning outcome with its associated courses, assessment type (e.g. course-related exam/assignment/grade, final paper/project/presentation, standardized exam, capstone) and method (e.g. rubric, faculty committee, single faculty member).*

Response:

Evaluate the characteristics of major tree species found in urban forests relative to issues of disease, interface with infrastructure, and similar concerns present in urban settings.

Apply current scientific understanding of biophysical and social systems to urban forest management.

Develop urban forest management plans that include the biophysical and social elements necessary for management of urban forests.

The SLOs will be assessed through assignments in the required courses, using an established rubric.

# CALS Curriculum Committee

## Submission Checklist

**NOTE: This checklist must be included with all course and certificate submissions.**

The checklist below is intended to facilitate course and certificate submissions to the University of Florida Academic Approval Tracking System (<https://approval.ufl.edu/>). The checklist consists of the most common items that can cause a submission to require changes or be recycled. Contrary to information provided on the UF approval site, the CALS Curriculum Committee requires a syllabus be submitted with each new course or course modification request. Please note that submitters are encouraged to attend the CALS CC meeting at which their item is being reviewed. This allows the submitter to answer any potential questions that may arise that could cause the item to not be approved. Also, be aware that when completing the UCC form the section Description of Request is asking for a brief statement about what you are doing. This is **not** the place for a course description. A statement such as “Proposal of a new undergraduate course” is all that is needed. Please do not submit documents in pdf format. All documents should be submitted in Word to facilitate editing on our end if necessary.

**CHECKLIST: PLEASE INITIAL OR MARK N/A FOR EACH STATEMENT TO INDICATE YOUR COMPLIANCE.**

NA It is required when making a submission that you consult your department’s representative to the CALS CC. A list of current members can be found on the committee site located at: <https://cals.ufl.edu/faculty-staff/committees/>.

NA You **MUST** comply with the CALS Syllabus Policy, including items 1 through 8 and all standard syllabus statements. This document can be viewed at the committee site(<https://cals.ufl.edu/faculty-staff/committees/>) by clicking on the Curriculum Committee – Information & Documents heading and scrolling down to Forms, Checklists, and Other documents. The other items included here are all very helpful when making a curriculum submission. Some will be mentioned in other checklist items below.

NA Joint course submissions must include both graduate and undergraduate syllabuses and a separate statement outlining the substantial (more than one) differences in assignments between the two courses. These assignments must account for at least a 15% difference in graded material between the two levels. If this is a new course submission both courses must be submitted for approval simultaneously.

NA The course description on the UCC form and in the syllabus must match. Any other information you wish to include needs to be under a different heading such as background or additional information.

NA The course learning objectives must be consistent with Bloom’s taxonomy. Please see the following link at the CALS Curriculum site. ([https://cals.ufl.edu/content/PDF/Faculty\\_Staff/cals-course-objectives.pdf](https://cals.ufl.edu/content/PDF/Faculty_Staff/cals-course-objectives.pdf) ). Do not use the words demonstrate or understand when listing learning objectives.

NA The course schedule should be concise and include the appropriate number of weeks in the semester.

\_NA\_ All graduate course submissions must include a reading list if a textbook is not required. The reading list should include at least some current readings (within the last 5 years). All readings do not need to be current.

\_NA\_ Outside consultations are required if there is a possibility of the proposed course covering material taught in another department or college on campus. There must be a consult form completed by the chair of the department from who you are seeking the consult. Instructors may provide additional consults. The form can be found at: <https://registrar.ufl.edu/pdf/ucccconsult.pdf>.

\_NA\_ Prerequisite courses are required for 3000 and 4000 level courses. This line of the approval form cannot be “none” or left blank. Junior or senior standing is an acceptable option. A phrase such as “a course in basic biology” is not acceptable.

\_NA\_ Decimal points must be included in the grading scale if grade cut-offs are based on percentages. While this is not a university policy it is a CALS standard practice to avoid any confusion when final grades for the course are determined.

\_NA\_ The attendance and make-up policy in a syllabus cannot contradict the university’s policy. Do not include any additional wording to this policy. A statement and link regarding this is included in the CALS Syllabus Statements. For the approval process the college suggests a less is more view when it comes to this policy.

\_NA\_ The most recent version of the CALS Syllabus Statements boiler plate must be included in all syllabuses. This document is included in the CALS Syllabus Policy and can be copied and pasted to the syllabus. Do not use the boilerplate statements from an old syllabus as they are likely to be out of date.

## **Certificates**

If proposing a new undergraduate or graduate level certificate that includes any courses outside of the submitters department a statement regarding any possible impact on those courses needs to be included. An email from the instructor is acceptable. Also, any courses required for the certificate must have permanent prefixes and course numbers. The submission must include intended catalog copy. (Contact Dr. Joel Brendemuhl ([brendj@ufl.edu](mailto:brendj@ufl.edu)) for further instruction)

# Urban Forestry certificate

This certificate prepares students to manage natural resources within urban and urbanizing environments. Graduates are prepared to work for municipalities, urban planning organizations, consulting firms, and similar entities involved in the planning, installation, and maintenance of urban green space.

## About this Program

- **College:** [Agricultural and Life Sciences](#)
- **Credits:** 19 | Completed with minimum grades of C
- **Contact:** [Email](#) | 352.846.0847

*Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.*

The School of Forest Resources & Conservation is a unit within the Institute of Food and Agricultural Sciences (IFAS) and the College of Agricultural and Life Sciences (CALs). The school is home to three distinct yet integrated program areas: [Fisheries and Aquatic Sciences](#), [Forest Resources and Conservation](#), and [Geomatics](#). The school's faculty, staff, and students conduct research, teaching, and extension that cuts across a wide range of environments and disciplines.

## [Website](#)

## CONTACT

[Email](#) | 352.846.0850 (tel) | 352.392.1707 (fax)

P.O. Box 110410  
1745 McCarty Drive  
136 NEWINS-ZIEGLER HALL  
GAINESVILLE FL 32611-0410

## [Map](#)

## *Requirements for admission*

Students or professionals with appropriate academic and/or professional background in natural resources, natural resource management, or allied fields, as determined by the FRC/NRC Undergraduate Coordinator.

## *Curriculum*

Students must have a high-school diploma or the equivalent and they must have completed all course prerequisites before enrolling in any course.



## Required Courses

FNR 3131C	Dendrology / Forest Plants	3
FOR 3342C	Tree Biology	3
FOR 4090C	Urban Forestry	3
ORH 4242C	Arboriculture	4
Electives		6
Total Credits		19

## Electives

### **Social Dimensions** (choose one)

GEO 3602	Urban and Business Geography	3
SYD 3410	Urban Sociology	3
URP 3001	Cities of the World	3
URP 4000	Preview of Urban and Regional Planning	3

### **Biophysical Dimensions** (choose 3 credits)

ENY 3005	Principles of Entomology	2
ENY 3005L	Principles of Entomology Laboratory	1
FOR 4624C	Forest Health Management	3
ORH 3513C	Environmental Plant Identification and Use	3
ORH 3815C	Florida Native Plant Landscaping	3
SWS 4231C	Soil, Water and Land Use	3



**From:** [Zsembik,Barbara](#)  
**To:** [Martin,Timothy A](#)  
**Subject:** RE: Course in SFRC undergraduate certificate  
**Date:** Monday, November 30, 2020 4:17:35 PM

---

Hi Tim,

It is a popular course so there is likely to be some competition for seats, but we do not restrict them. Enrollment is open to undergraduates across the university.

---

**From:** Martin,Timothy A <tamartin@ufl.edu>  
**Sent:** Monday, November 30, 2020 4:15 PM  
**To:** Zsembik,Barbara <zsembik@ufl.edu>  
**Subject:** Course in SFRC undergraduate certificate

Dear Dr. Zsembik,

I am the undergraduate coordinator in the School of Forest Resources and Conservation. We are planning an undergraduate certificate in Urban Forestry that includes the following Sociology and Criminology and Law course in its curriculum:

SYD3410 - Urban Sociology

I do not anticipate this certificate to carry very large enrollments, and this course is part of a "choose one" type of menu, so I suspect "new" enrollment in this course due to this certificate would not exceed 3-5 students/year.

Do you anticipate that this course can accommodate that additional enrollment? If I should direct this question to someone else, please let me know.

Best regards,

Tim

==

Timothy A. Martin  
Professor, Tree Physiology  
School of Forest Resources and Conservation  
University of Florida  
Box 110410, Gainesville, FL , 32611-0410  
352-846-0866

**From:** [Southworth, Jane](#)  
**To:** [Martin, Timothy A](#)  
**Subject:** Re: Courses in SFRC undergraduate certificate  
**Date:** Monday, November 30, 2020 4:54:48 PM

---

Tim

there will be no problem with accommodating this. Thanks for the heads up

Jane

Dr. Jane Southworth

Professor and Chair  
Department of Geography  
Land Use & Environmental Change Institute (LUECI)  
Florida Climate Institute (FCI)  
University of Florida  
TUR 3141, Gainesville, FL 32611  
Phone: 352 294-7512  
Email: [jsouthwo@ufl.edu](mailto:jsouthwo@ufl.edu)

NOTE: This communication may contain information that is legally protected from unauthorized disclosure. If you are not the intended recipient, please note that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this message in error, you should notify the sender immediately by telephone or by return email and delete this message from your computer.

---

**From:** Martin, Timothy A <tamartin@ufl.edu>  
**Sent:** Monday, November 30, 2020 4:08 PM  
**To:** Southworth, Jane <jsouthwo@ufl.edu>  
**Subject:** Courses in SFRC undergraduate certificate

Dear Dr. Southworth,

I am the undergraduate coordinator in the School of Forest Resources and Conservation. We are planning undergraduate certificates in Fire Ecology and Management and Urban Forestry that include the following Geography courses in their curricula:

GEO3602: Urban and Business Geography  
GEO2242: Extreme Weather  
GEO3250: Climatology  
MET1010: Introduction to Weather and Climate

I do not anticipate these certificates to carry very large enrollments, and these courses are part of "choose one" type menus, so I suspect "new" enrollment in these courses due to these certificates would not exceed 3-5 students/year.

Do you anticipate that these courses can accommodate that additional enrollment? If I should direct this question to someone else, please let me know.

Best regards,

Tim

==

Timothy A. Martin  
Professor, Tree Physiology  
School of Forest Resources and Conservation  
University of Florida  
Box 110410, Gainesville, FL , 32611-0410  
352-846-0866

**From:** [Whiles,Matthew R](#)  
**To:** [Martin,Timothy A](#)  
**Subject:** RE: Courses in SFRC undergraduate certificate  
**Date:** Thursday, December 3, 2020 12:26:52 PM

---

Hey Tim –

I checked with both professors and they have no problem accommodating some additional students.

Matt R. Whiles  
Chair and Professor, Soil and Water Sciences Department  
Past President, Society for Freshwater Science

2181 McCarty Hall A  
PO Box 110290  
University of Florida  
Gainesville, FL 32611-0290

Phone: (352) 294 3161  
Email: [mwhiles@ufl.edu](mailto:mwhiles@ufl.edu)

---

**From:** Martin,Timothy A <tamartin@ufl.edu>  
**Sent:** Monday, November 30, 2020 4:17 PM  
**To:** Whiles,Matthew R <mwhiles@ufl.edu>  
**Subject:** Courses in SFRC undergraduate certificate

Dear Dr. Whiles,

I am the undergraduate coordinator in the School of Forest Resources and Conservation. We are planning undergraduate certificates in Environmental Policy, Law, and Regulation and Urban Forestry that include the following Soil and Water Sciences courses in their curricula:

SWS4231C Soil, Water and Land Use  
SWS4244 Wetlands

I do not anticipate these certificates to carry very large enrollments, and these courses are part of “choose one” type menus, so I suspect “new” enrollment in these courses due to these certificates would not exceed 3-5 students/year.

Do you anticipate that these courses can accommodate that additional enrollment? If I should direct this question to someone else, please let me know.

Best regards,

Tim

==

Timothy A. Martin  
Professor, Tree Physiology  
School of Forest Resources and Conservation  
University of Florida  
Box 110410, Gainesville, FL , 32611-0410  
352-846-0866

**From:** [Dedenbach, Laura J](#)  
**To:** [Martin, Timothy A](#)  
**Subject:** Re: Courses in SFRC undergraduate certificate  
**Date:** Tuesday, December 1, 2020 8:40:32 AM

---

Hi Tim,

Thanks for reaching out about these classes.

For URP 3001, we would not anticipate any problems accommodating your students. We have a traditional classroom section (25 students) and a large-enrollment online section (300 students) offered in Fall, Spring, and Summer semesters.

For URP 4000, there might be difficulty accommodating additional students. URP 4000 is offered as 40-person traditional classroom section in Fall, Spring, and Summer semesters. It is required for the URP minor, business administration specialization in URP, the real estate minor, and the SBE minor. It fills up quickly each semester. That said, I wouldn't take it off your list, especially if there are other options. This would be a beneficial class for those interested in urban forestry.

If you have any questions, please don't hesitate to ask.

Best,

Laura

—

**Laura Dedenbach, Ph.D., AICP**

Pronouns: She/Her  
Lecturer | Undergraduate & Graduate Coordinator  
Department of Urban and Regional Planning

466 ARCH | PO Box 115706 | Gainesville, FL 32611-5706  
<http://www.dcp.ufl.edu/urp>

On Nov 30, 2020, at 4:29 PM, Martin, Timothy A <[tamartin@ufl.edu](mailto:tamartin@ufl.edu)> wrote:

Dear Dr. Dedenbach,

I am the undergraduate coordinator in the School of Forest Resources and Conservation. We are planning an undergraduate certificate in Urban Forestry that includes the following Urban and Regional Planning courses in its curriculum:

URP3001 - Cities of the World  
URP4000 - Preview of Urban and Regional Planning

I do not anticipate these certificates to carry very large enrollments, and these courses



are part of “choose one” type menus, so I suspect “new” enrollment in these courses due to these certificates would not exceed 3-5 students/year.

Do you anticipate that these courses can accommodate that additional enrollment? If I should direct this question to someone else, please let me know.

Best regards,

Tim

==

Timothy A. Martin  
Professor, Tree Physiology  
School of Forest Resources and Conservation  
University of Florida  
Box 110410, Gainesville, FL , 32611-0410  
352-846-0866