# Urban Forestry
## FOR 4934 (3 credits), Sec. 1935, Spring 2011

## Instructor:
Francisco Escobedo, Assistant Professor
Newins-Ziegler 361
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## Office Hours:
Tuesdays and Thursdays 10:45-12:45 and 2:00-5:00 pm

## Objectives:
At the end of this course, each student will be able to:
- Understand urban forestry and the scientific aspects of an urban forest ecosystem;
- Measure and analyze urban forest structure, function, ecosystem services, and values;
- Assess the biophysical and socioeconomic aspects of urban/natural resources management;
- Leave with problem solving skills to address management issues in urban and urbanizing forests

## Time and Place:
NZ 222 / Tuesdays and Thursdays: Periods 2-3 (8:30am-10:25am)

## Evaluation of Learning and Performance
**1. Exams**: First exam will be on February 4th; Second exam will be on March 4th and Final exam will be on April 20th. Exams will cover lecture material and assigned readings

**2. Lab reports**: A 12 font, Times New Roman, single spaced report will be prepared after each lab and will be due at the beginning of lectures on the following Tuesday. Reports turned in late on Tuesday will receive ½ credit and those turned in after Tuesday will not be given credit. You must attend lab to get credit. All reports will be graded on content (accuracy and completeness), presentation (quality of writing) and <u>incorporation of assigned readings given Tuesday of every week</u>. The report will be independent work and it can be handed in only if you attend lab. Report must follow the 2 formats:
  *Report A*- These 1-page reports will capture the "take home message" from that day's field/ in class lab (i.e. tell me what you learned from that lab, reading, and lecture). The report should incorporate topics from our lecture, <u>assigned readings</u> (include citations), and lab.
  *Report B*- These reports will analyze data you collected and will follow a standardized format, length, and content as indicated in the lab handout.

**3. Group project**: Student groups will collaboratively plan, develop, and present a street tree inventory report using the i-Tree model to the City of Gainesville.

**GRADING:** 1st exam 20%; 2nd exam 20%; Final exam 20%; Lab Reports 20%; Project 20%
**Attendance:** Do not arrive late to class. Attendance in class is mandatory since lab write-ups may only be turned in if you attend the labs. Make-up exams will not be given. However, if there is a special circumstance, please make an appointment to see me or contact me by phone.

## Optional Texts
Robert Miller's Urban Forestry: Planning and Managing Urban Green Spaces. Prentice Hall. Additional assigned readings will be provided or will be available in the library or on the internet

## Grading Scale
90% + A        86% - 89% B+        83% - 86% B        76% - 79% C+
70% - 75% C    66% - 69% D+        60% - 65% D        < 60% E

## Schedule of Class, Labs, and Report Format

|  | Tuesday | Thursday (labs) |
|---|---|---|
| January 6th |  | Introduction to Urban Forestry |
| January 11th / 13th *Reading 1* | Urban environment, urban forest ecosystems and structure | 1: Trees on campus and urban ecosystems *Report A* |
| January 18th / 20th (lab 1 due); *Reading 2* | Urban forest function, ecosystem services, and benefits | 2: Measuring structure and benefits *Report B* |
| January 25th / 27th (lab 2 due) *Reading 3* | Inventories, Tools, and Technology | 3: In class use of i-Tree model **Laptop required** *Report B* |
| February 1st / 3rd (lab 3 due) *Reading 4* | Management and planning; **February 1st: First Exam** | 4: Street tree inventory *Report B* |
| February 8th / 10th (lab 4 due) *Reading 5* | Urban soils and watersheds | 5: Urban watersheds *Report A* |
| February 15th / 17th (lab 5 due) Reading*: 6* | Tree hazard assessments; City of Gainesville project | 6- Group project measurements *No report due* |
| February 22nd / 24th *Reading 7* | Trees and land development / Ordinances and policies | 7: **Field trip**; Trees and construction. *Report B* |
| March 1st / 3rd (lab 7 due) *Reading 8* | Urban ecology and wildlife Guest Lecture: Mark Hostetler | **March 3rd: Second Exam** Group analysis/review |
| March 5th / 12th | *Spring break* | *Spring break* |
| March 15th / 17th *Reading 8* | Tree selection, maintenance, arboriculture | **March 17th**: **Group Project Reports Due** |
| March 22nd / 24th *Reading 9* | Economic valuation and tree appraisal | 10: **Field trip** with City Personnel; *No report due* |
| March 29th / March 31st (lab 10 due) *Reading 10* | Working with people and community forestry | 11: Nicole Wulff- USFS; *Report B* |
| April 5th / 7th (lab 11 due) *Reading 11* | Recreation and urban greening | Lecture: managing for wildfire and hurricanes *No report due* |
| April 12th / 14th *No readings* | *April 13th: No class* April 15th: Wrap up and review | 12 Take home assignment- *Report B* |
| April 19th (lab 13 due) | **April 19: Third Exam** |  |

## Other Information

**UF Grading policies:**
> http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html

**Academic Honesty:**
The University of Florida requires all members of its community to be honest in all endeavors. Cheating, plagiarism, and other acts diminish the process of learning. When students enroll at UF they commit themselves to honesty and integrity. Your instructor fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF. As a result of completing the registration form at the University of Florida, every student has signed the following statement: *"I understand the University of Florida expects it students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University."* Furthermore, on work submitted for credit by UF students, the following pledge is either required or implied: "*On my honor, I have neither given nor received unauthorized aid in doing this assignment.*" It is to be assumed all work will be completed independently unless the assignment is defined as group project, in writing by the professor. This policy will be vigorously upheld at all times in this course.

**Computer/Software Use:**
Students are required to have access to a computer with adequate capacity for dealing with the course work in their curriculum. All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

**Campus Helping Resources:**
Students experiencing crisis or personal problems that interfere with their general wellbeing are encouraged to utilize the university's counseling resources. Both the Counseling Center and Student Mental Health provide confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal or lacking clear career and academic goals, which interfere with their academic performance. The Counseling Center is located at 301 Peabody Hall (next to Criser Hall). Student Mental Health is located on the second floor of the Student Health Services in the Infirmary.
1. *University Counseling Center*, 301 Peabody Hall, 392-1575; personal and career counseling: w**ww.counsel.ufl.edu**
2. *Student Mental Health*, Student Health Care Center, 392-1171, personal counseling: **www.hsc.ufl.edu/shcc/smhs.htm**
3. *Sexual Assault Recovery Services (SARS)*, Student Health Care Center, 392-1161, sexual assault counseling; and
4. *Career Resource Center*, Reitz Union, 392-1601, career development assistance & counseling.

**Students with Disabilities Act:**
The Dean of Students Office coordinates the needed accommodations of students with disabilities. This includes the registration of disabilities, academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faulty-student disability related issues. *Dean of Students Office*, 202 Peabody Hall, 392-7066, **www.dso.ufl.edu.**