

**Horticulture 375**  
**Arboriculture and Landscape Maintenance (3 credits)**  
**Spring 2010**

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Office hours: 4:00-5:00 p.m. Tuesday and Thursday or by appointment

Secretary: Ms. Kristin Jacobson (262-8406)

Teaching Assistant: None

Meeting times: Lectures: Tuesday & Thursday, 9:55-10:45 A.M., Rm 128 Moore Hall/Plant Science  
Labs: Tuesday and Thursday, right after lecture, 11:00-12:45 P.M., Rm 128 Moore Hall

Course Description: Fundamentals of woody plant growth and development, environmental and cultural conditions affecting plant health, tree and shrub selection and installation, proper care and maintenance of landscape plants, tree protection systems, hazard tree assessment, techniques involved in integrated pest management and plant health care programs, and safety when working in trees

Prerequisites: Must have completed either Hort/LA 263 (Woody Plant Identification) or Botany 402 (Dendrology). Class intended primarily for junior or senior, CALS plant science-related majors. This is not a survey or overview course and is intended for those who will be practicing these skills upon graduation.

Texts and References:

Required

- 1) Arboriculture: Integrated Management of Trees, Shrubs, and Vines, 4<sup>th</sup> ed. 2004. by Richard Harris, James Clark, and Nelda Matheny, Prentice Hall, Upper Saddle River, New Jersey. Cost \$86.95
- 2) Purchase a pair of pruners, loppers, and a pruning saw (not a regular saw). You can buy these at most garden or home improvement centers. Buy a pruner with a bypass-type of blade, not an anvil blade. You will be responsible for bringing your own equipment to the tree and shrub pruning labs.
- 3) An inexpensive calculator

Highly Recommended

- 1) Arborists' Certification Study Guide, 2010, by Sharon Lilly. International Society of Arboriculture (ISA), Champaign, IL (order on-line at: [www.isa-arbor.com](http://www.isa-arbor.com)) Cost: \$95.95 non-member, \$65.95 if you are an ISA member

Course Objectives: At the completion of the course, the student will be able to:

- 1) Understand tree and shrub growth and development
- 2) Describe how environmental and cultural conditions affect plant health
- 3) Demonstrate how to properly plant, prune, fertilize, water, and care for landscape plants
- 4) Employ IPM and plant health care programs
- 5) Acknowledge appropriate reference material and guides for plant health care
- 6) Appreciate the great diversity and beauty of ornamental landscape plants and how they grow

Lectures/Labs: Lectures consist mainly of indoor lectures featuring PowerPoint presentations and discussion. Labs for the first part of the semester will be indoors with some guest lecturers. During mid to late March, labs will be outdoors for the rest of the semester, rain or shine and regardless of temperature, and will consist of guest presentations, field trips, and hands-on techniques. Transportation for off-campus labs and field trips will be provided.

| <u>Grading:</u>  | <u>% of final grade</u> |
|--|-------------------------|
| Written night exams (2), 20% each exam<br>Wed., Feb. 27, and Apr. 9, 5-7:00 p.m. | 40%                     |
| Final exam: Fri., May 14, 2:45-4:45  | 20%                     |
| Landscape maintenance project (in teams of 3)<br>Due Thurs., May 8               | 20%                     |
| Lab attendance and homework assignments  | 15%                     |
| Class participation, performance, and attendance                                 | 5%                      |

\*Written exams are **cumulative** and will be given during the course in the classroom. Students will be asked to relate material covered in class AND reading assignments to real-life situations. Don't wait till the night before the exam to study! The questions on the written exam are very representative of the kind of questions you will receive once employed, regardless whether you are an arborist, horticulturists, urban forester, or landscape architect. Many employers only hire employees that have this basic knowledge.

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|-----------------------|------------|
| <u>Grading scale:</u> | ≥ 92 = A   |
|                       | 88-91 = AB |
|                       | 82-87 = B  |
|                       | 78-81 = BC |
|                       | 70-77 = C  |
|                       | 60-69 = D  |
|                       | < 60 = F   |

Make-up exams: Please contact me BEFORE exams if you cannot make the written exam date. Acceptable reasons for missing the written exam date are death in the family, accident, or proof of illness.

Academic honesty required: Cheating on exams will **NOT** be tolerated at anytime. Students caught cheating will receive an automatic zero for that test and the student will be subjected to further disciplinary action at the university level. Be responsible and professional, do not cheat!

Policy on attendance: All students are expected to attend all scheduled lectures and labs for successful academic performance in this course. An excess of 3 or more unexcused lecture or lab absences will indicate a lack of interest, hence, your final grade will be significantly affected since class attendance, performance, and participation count for 5% of your final grade.

Guide to Success: I **HIGHLY** encourage each of you to learn each week's material that weekend. I found it very helpful, when I was a student, to study in groups with my classmates. This can be fun AND educational. The best students in this class are usually the ones who pair up with a study buddy early in the semester and meet with that partner on a weekly basis.

\*\*\*This class is a 3-credit course. It is often said in academia that for every 1 hour you spend in the classroom, you will need to spend 3 hours in homework time, therefore, you should spend around 9 hours a week studying the material in order to do well in the course. This is YOUR responsibility! Each and everyone one of you **CAN earn an A** in my course, you just need to apply yourself on a weekly basis and enjoy learning. Don't wait until the first exam if you are having problems learning or understanding the material. Please contact me as soon as possible for help.

\*\*\*If you have any problems, questions, or learning disabilities, please see me at once. I am more than willing to work with students to help them learn the wonderful world of plants and arboriculture :)

The goal of my course is to prepare you for working in the Green Industry, whether as a an urban forester, arborist, horticulturist, landscape architect, nurseryperson, landscaper, golf course superintendent, groundskeeper, professional gardener, etc.

There is **no smoking or tobacco chewing** allowed in the classroom or in outdoor labs. Please respect this and do NOT smoke! **Cell phones and texting are also NOT allowed in lecture or labs**. If one goes off in class, you will get a warning, after that, your phone will be taken away from you until the end of class time. Cell phones are very disruptive and disrespectful to your classmates, guest speakers, and instructor.

\*If you are taking this class for audit, please see me.