

**Columbus State Community College
Construction Sciences and Engineering Technology
Landscape Design and Management**

COURSE: LAND 1590 – Landscape Maintenance

Semester

CREDITS: 3

CLASS HOURS PER WEEK: Tuesday & Thursday 1:30pm – 4:20pm

1.5 Lec. 4.5 Lab

PREREQUISITES: HORT 1130,

Davidson Hall Rm 242

Instructor Information – Steven O’Neal

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DESCRIPTION OF COURSE

A complete evaluation of management theories within the landscape environment. Focusing on landscape management principles and practices best followed to ensure optimum growth while maximizing the aesthetic qualities. Defining the sciences of plants and soils, while exploring the practical methods involved in safety, equipment optimization, mulching, planting, pruning, and other management elements that when combined ensure a healthy living environment.

STUDENT LEARNING OUTCOMES

Upon completion of this course the student will be able to:

- Describe the landscape management profession and career opportunities.
- Demonstrate safety consciousness in appropriate dress/apparel, tool use and job site demeanor.
- Identify, maintain, and describe the safe use of various hand and power tools.
- Identify and amend different soil conditions.
- List different biological processes of plants.
- Demonstrate proper planting techniques on a variety of landscape plants.
- Demonstrate proper pruning techniques on a variety of landscape plants.
- Identify different turf grass care methods.
- Create an annual maintenance calendar for a selected landscape.
- Present a basic cost estimate and contract proposal for landscape management services.

GENERAL EDUCATION OUTCOMES

Columbus State Community College's general education outcomes are an integral part of the curriculum and central to the mission of the college. The faculty at Columbus State has determined that these outcomes include the following competencies in this course:

- Critical Thinking
- Effective Communication
- Scientific and Technological Effectiveness
- Information Literacy
- Quantitative Literacy

COURSE MATERIALS REQUIRED

Although not required, it is strongly recommended that students provide the tools necessary for “pruning walks” and lab time.

TEXTBOOK, MANUALS, REFERENCES, AND OTHER READINGS

Although none are required, many books have been developed to teach the art of proper landscape management. A few resources that may be helpful will be listed.

GENERAL INSTRUCTIONAL METHODS

Primarily in class discussions accompanied by PowerPoint presentations. This class will also utilize lab time to create a hands-on learning environment.

ASSESSMENT

Columbus State Community College is committed to assessment (measurement) of student achievement of academic outcomes. This process addresses the issues of what you need to learn in your program of study and if you are learning what you need to learn. The assessment program at Columbus State has four specific and interrelated purposes: (1) to improve student academic achievements; (2) to improve teaching strategies; (3) to document successes and identify opportunities for program improvement; (4) to provide evidence for institutional effectiveness. In class you are assessed and graded on your achievement of the outcomes for this course. You may also be required to participate in broader assessment activities.

STANDARDS AND METHODS FOR EVALUATION

Midterm and a final exam; 4 graded papers; 2 lab projects; attendance and class participation

GRADING SCALE

Quality	Grade/Percentage	Grade Points
Excellent	A = 100% to 90%	4
Good	B = 89% to 80%	3
Average	C = 79% to 70%	2
Poor	D = 69% to 60%	1
Failing	E = 59% and below	0

GRADING FOR LAND 1590 WILL BE BASED AS FOLLOWS:

<u>PROJECTS / EXAMS</u>	<u>POINTS / PERCENT OF GRADE</u>
PAPER (4). Length: Approximately one full page, single spaced and typed.	100 POINTS
MID - TERM	125 POINTS
ANNUAL MAINTENANCE PROGRAM	125 POINTS
(2) LAB EXERCISES - Soil Sample (50) & Area Calculation (100)	150 POINTS
FINAL EXAM	200 POINTS
<u>PARTICIPATION & ATTENDENCE</u>	<u>100 POINTS</u>
TOTAL POINTS	800 POINTS

ATTENDANCE POLICY

Attendance will be noted in each class period. A percentage of your grade will be related to your class participation in critiques, presentations, and discussions.

STUDENT CODE OF CONDUCT

As an enrolled student at Columbus State Community College, you have agreed to abide by the Student Code of Conduct as outlined in the Student Handbook. You should familiarize yourself with the student code. The Columbus State Community College expects you to exhibit high standards of academic integrity, respect and responsibility. Any confirmed incidence of misconduct, including plagiarism and other forms of cheating, will be treated seriously and in accordance with College Policy and Procedure 7-10.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY

It is Columbus State policy to provide reasonable accommodations to students with documented disabilities. If you would like to request such accommodations because of physical, mental or learning disability, please contact the Department of Disability Services, 101 Eibling Hall, 614.287.2570 (V/TTY). Delaware Campus students may also contact an advisor in the Student Services Center, first floor Moeller Hall, 740.203.8000. Ask for Delaware Campus advising, or www.csc.edu/delaware, for assistance.

INCLEMENT WEATHER OR OTHER EMERGENCIES

In the event of severe weather or other emergencies that could force the college to close or to cancel classes, such information will be broadcast on radio stations and television stations. Students who reside in areas that fall under a Level III emergency should not attempt to drive to the college even if the college remains open.

Assignments due on a day the college is closed will be due the next scheduled class period. If an examination is scheduled for a day the campus is closed, the examination will be given on the next class day. If a laboratory is scheduled on the day the campus is closed, it will be made up at the next scheduled laboratory class. If necessary, laboratory make-up may be held on a Saturday.

Students who miss a class because of weather-related problems with the class is held as scheduled are responsible for reading and other assignments as indicated in the syllabus. If a laboratory or examination is missed, contact me as soon as possible to determine how to make up the missed exam or lab. Remember! It is the student's responsibility to keep up with reading and other assignments when a scheduled class does not meet, whatever the reason.

In the event the college is forced to close during Final Examination Week, exams scheduled for the first missed date will be rescheduled for (date), in the same location at the same time scheduled. Exams scheduled for a second missed date will be rescheduled for _____. Thus, our final exam is scheduled for (date) at _____ o'clock. If the college is closed that day, the exam

will be held on (date) at _____ o'clock. If our exam is the second day the college has been closed, the exam will be held on (date) at _____ o'clock.

FINANCIAL AID ATTENDANCE REPORTING

Columbus State is required by federal law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through the Department of Veterans Affairs. It is the responsibility of the College to identify students who do not commence attendance or who stop attendance in any course for which they are registered and paid. Non-attendance is reported quarterly by each instructor, and results in a student being administratively withdrawn from the class section. Please contact the Financial Aid Office for information regarding the impact of course withdrawals on financial aid eligibility.

UNITS OF INSTRUCTION

(Please provide a weekly course schedule indicating the units of instruction, learning objectives/goals, assigned readings, assignments, and assessment methods.)

WEEK	UNIT OF INSTRUCTION	LEARNING OBJECTIVES/GOALS	ASSESSMENT METHODS	ASSIGNMENTS	ASSIGNMENT DUE DATE
Week 1 No class 01/17 First mtg. 01.19		Class outline, Intro to green industry certifications & landscape management careers. Intro to understanding landscape management and elements involved within (plants, hardscapes, etc.)	Gain an understanding of the course and required work, while also understanding the profession.	Paper #1; Annual Maintenance Program	Paper #1 due Week #3; AMP due Week #15
Week 2 01/24	Plant Sciences & Soil Sciences & Amendments	Students will comprehend and be able to list the physical properties associated with plants and soil.			
Week 3 01/31	Soil Sciences & Amendments	Students will comprehend and be able to list the physical properties associated with soil. While also conducting soil tests to determine texture			
Week 4 02/07	Soil Sciences & Amendments	Students will demonstrate all knowledge gained about soils and plants.		Paper #2; Lab #1	Paper #2 due Week #6; Lab #1 due Week #5
Week 5 02/14	Fertilizers & Herbicides	Students will demonstrate a basic understanding of how fertilizers and herbicides are used to manage a landscape.	MidTerm		

Week 6 02/21	Planting Techniques	Students will be able to verbally and manually show how to install most varieties of plants.			
Week 7 02/28	Edging & Mulching	Students will be able to verbally and manually show proper techniques for edging and mulching trees. While also identifying incorrect methods and the issues they create.		Paper #3	Paper #3 due Week #9
Week 8 03/07	Edging & Mulching	Students will be able to verbally and manually show proper techniques for edging and mulching trees. While also identifying incorrect methods and the issues they create.			
Week 9 03/21	Pruning Techniques	Student will understand and be able to identify tools needed for proper plant pruning. As well as being able to properly take care of such tools.			
Week 10 03/28	Pruning Techniques	Students will learn the craft of proper pruning techniques by plant.		Paper #4	Paper #4 due Week #12
Week 11 04/04	Pruning Techniques				
Week 12 04/11	Pruning Techniques				
Week 13 04/18	Area Calculations & Estimating			Paper #4; Lab #2	Lab #2 due Week #15
Week 14 04/25	Area Calculations & Estimating/Hardscape Management				
Week 15 05/02	Review & Final Exam		Final Exam		

