

Advanced Landscape Techniques
Landscape Construction

Class Meeting Times: 2:00 PM - 3:15 PM TR

Instructor: Tom E. Knight

Office: Room 7 A.B. Carter

Phone: 622-2232 E-mail: tom.knight@eku.edu

Office Hours: 9:00 - 12:00 and 1:00 - 4:00 except when in class.

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Objective and Course Content

This course is designed to familiarize the student with the construction materials and techniques commonly used in today's landscape industry. Current trends in the U.S. landscape industry have created a demand for many structural components in the landscape market. Knowledge of available construction materials and techniques for constructing common landscape structures is vital for success in today's landscape industry. This course will involve both the study of the technical information and (when possible) the hands on application of this technical information.

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Attendance Policy

Students enrolled in classes in the Agriculture Department are required to attend (ON TIME) all scheduled meetings of the class for which they are enrolled. If a student has a legitimate reason to be absent (personal illness, critical illness or death in the immediate family, or participation in an approved University activity), he or she is expected to discuss (if possible) the anticipated absence with the instructor **prior** to his or her absence and make arrangements for any make-up work that must be done. The instructor will judge the validity for the reason for an absence.

In case of an emergency of such a nature that the above requirements cannot be met, the student should inform the instructor at the first opportunity after the student's return to campus. He or she should present adequate and **documented** reasons for the absence. In all cases **it is the student's responsibility** to request the opportunity to make up work.

Absences in excess of **20% of the class meetings** will automatically result in a failing grade unless this requirement is waived by the instructor and the department chairman.

Enforcement of this policy is the responsibility of the instructor, and un-excused absences may be used as a factor in determining a grade for the course.

Class attendance will be recorded with a signature sheet with the student signing the roll at the beginning of each class. Any student attending a class late and failing to sign the class attendance record will be counted absent. Any student arriving late wishing to sign the class attendance record must provide a valid reason for the tardiness before being permitted to sign the record. **It is the student's responsibility** to request this late sign-in otherwise the lack of a signature will indicate an absence.

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Skills Conference Attendance

Students enrolled in any upper division level course (300 - 400) in the College of Business and Technology (which includes the Agriculture Department) are **required** to **register** for and **attend** the **College of Business and Technology 2004 Professional Skills Conference** to be held Friday April 1, 2005.

Registration should be done in room 313 Combs. Deadline for registration to be announced later.

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Text: NONE

ON REQUEST a progress report will be provided to the student on or about March 4, 2005 (drop deadline) in regard to his or her standing in the class.

If there is any student in this class who is in need of academic accommodations and who is registered with the Office of Services for Students with Disabilities, please make an individual appointment with the course instructor to discuss accommodations. Upon individual request, this syllabus can be made available in alternative forms. If any student who is not registered with the Office of Services for Students with Disabilities has need of academic accommodations, please contact the Office directly either in person in room 361 of the Student Services Building or by telephone at 622-1500.

LAST DATE TO DROP THIS CLASS IS FRIDAY MARCH 4, 2005

Grades

The student's final grade will be based on the following:

- Quizzes - A series of **announced and unannounced** quizzes will be given throughout the semester. These quizzes will cover lecture material and reading assignments.
NO MAKEUP QUIZZES (The quiz points will total to 50 points).
- Midterm Exam -. (100 points). **ONLY** students who miss this exam **WITH AN EXCUSED ABSENCE** will be given an opportunity to take an makeup exam on **Friday, April 29, 2005 at 7:00 AM No Exceptions.**
- Resource Collection -. Students will be offered an opportunity to secure samples of commonly used landscape construction units. These units will be accumulated into a display for the entire class to use a resources to become familiar with the units. Details of this resource collection will be discussed in class. (50 points) (Additional bonus points available)
- Classroom and laboratory participation and attendance - Each student will be subjectively evaluated at the end of the semester as to his or her participation in classroom discussions, lab exercises, and attendance. (50 points)
- Final Exam - A comprehensive final exam will be given on **Tuesday May 3, 2005 @ 1:00 PM.** (200 points).

Grades will be assigned on the following basis:

Grade	Percentage of Possible Point Total	Point Range
A	100% - 90%	450 - 405
B	89% - 80%	404 - 360
C	79% - 70%	359 - 315
D	69% - 60%	314 - 270
F	< 60.0%	< 270.0

NOTE

The instructor's lecture notes will **NOT** be available for individual student's use.

OHO 392
Advanced Landscape Techniques
Landscape Construction

General Topic Outline

General Landscape Construction Materials

- SOIL: General properties in regard to landscape construction; excavation; fill; compaction; etc.
- STONE: General properties; terminology; grades and their uses in regard to landscape construction
- WOOD: Properties and characteristics in relation to landscape construction
Available species and their specific properties
- MASONRY MATERIALS
 - Concrete: Composition
Handling: Forming, pouring, screeting, floating, finishing, curing, etc.
 - Brick: Characteristics, types, and uses
 - Concrete Block: Characteristics, types, and uses
- ACCESSARY MATERIALS
 - Wood Fasteners
 - Wood sealers, preservatives, stains, etc.
 - Concrete curing modifications and sealers
 - Masonry Adhesives; Mortars, epoxies , etc.

Landscape Lighting

- BASIC MATERIALS
 - Wire types, gauges, etc.
 - Circuit boxes, juncture boxes, wire connectors, conduit, etc.
 - Lamps & Fixtures
 - Controllers
- LIGHTING SYSTEM DESIGNS

Landscape Water Features

Landscape Structures

- WALLS
 - Free Standing
 - Retaining
- FENCES
- BENCHES & SEATING

Topographical Surveying Equipment and Techniques

- EQUIPMENT
 - Abney Level
 - Engineer's Level
 - Transit
 - Surveyor's tape, rod, etc.
- TECHNIQUES
 - Collecting data for a topographical map
 - Developing a topographical map
 - Reading topographical map
 - Modifying topography