

SOILS & HERBACEOUS VEGETATION

Dr. William Moore

Room 118, YOW Bldg.

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Office Hrs: posted by office door

TEXTBOOK: Soil Science Simplified (optional); Weeds of Southern Turfgrasses (optional)

It is also **strongly** recommended that students pick up a field guide book to aid in plant identification. (Weeds of Southern Turfgrasses, Golden Field Guide, Newcomb's Wildflower Guide, etc.)

SUPPLIES: Recommended: 10X HAND LENS (For detailed examination of plant parts)

<u>GRADING:</u>	<u>Points</u>	<u>Grade</u>	<u>Points</u>
Midterm Exam	300	A	900 - 1000
Final Exam	350	B	800 - 899
Class/Lab participation	50	C	700 - 799
*Plant Mount Collection (5 family reps.)	100	D	600 - 699
<u>Quizzes (Lec. & Field I.D.)</u>	<u>200</u>	F	< 600
Total	1000		

*Failure To Turn In Properly Prepared Specimens Will Result In A Reduction Of The Course Grade By **Two (2) Letter Grades**

Students enrolled in the Forestry, and Wildlife Technology Programs will be expected to demonstrate an understanding of subject matter requiring higher order processing skills. Examination and quiz questions may include essay, synthesis, analysis, and application; as well as completion, multiple choice, true-false, and matching. Computational skills and drawing or diagramming may also be required.

Quizzes may be given at any time without advanced notice and may cover any information covered in the course thus far.

COURSE OBJECTIVES:

The overall objective of this course is to provide students with an understanding of the relationships between soil types, and the vegetative species they support. The specific objectives for this course are;

1. To develop an understanding of the basics of soil formation and classification.
2. To become familiar with the terminology of soil science
3. To learn to use the soil profile characteristics and topographic position to predict erosion hazard, equipment limitations, and suitability of land for various types of wildlife management.
4. To use county soil surveys as a tool in management of natural resources

5. To familiarize students with plant classification, binomial nomenclature, and use of dichotomous keys.
6. To instruct students on floral and vegetative characteristics of higher plant taxa, and the use of these characteristics in identifying herbaceous plant families
7. To familiarize students with common herbaceous species, species of special concern, and species of importance in wildlife management.

ATTENDANCE: Students may have up to 5 absences (excused or unexcused) during the semester without being penalized. Each absence greater than 5 will result in a 3% reduction of the course grade.

Students who are absent are responsible for any work or assignments missed. Contacts may be made in person, by phone, by e-mail, or by messages placed under the door of room 118.

The only acceptable reasons for an absence from a quiz or exam are illness requiring medical attention (doctor's note required, **NOT** an appointment card), school-related trip, or death in the immediate family.

If a quiz or exam is missed for an excused reason, students must schedule a makeup within 1 week of the missed exam.

With respect to exams, necessary arrangements will be made for students with diagnosed learning disabilities.

TARDINESS: The School of Agriculture and Natural Resources' attendance policy is as follows: Any student that is late to class will be considered absent for the class period. No exceptions. Once class begins, the door may be locked and no one will be able to enter afterwards. Students are not allowed to leave the classroom without permission from the instructor.

- BEHAVIOR:**
1. Students are expected to reflect their status as mature adults and behave courteously towards their classmates.
 2. No eating or use of tobacco is allowed in the classrooms or indoor labs. Each offense will result in a 3% reduction of the course grade. Drinks in lidded containers are allowed – **NO CANS.**
 3. **Cell Phone/Pager Policies:**
All cell phones and pagers must either be left in a vehicle or turned off. If a student's cell phone rings (including vibrate mode) during class, that student will lose 5 percentage points off of their final course grade for each occurrence. A student checking their phone or pager for calls or text messages will equate to that phone ringing. **Any student texting in class will have to leave the class and will lose 5 percentage points off of their final course grade for each occurrence.**

4. Appropriate clothing should be worn during field labs (i.e., heavy pants, boots, jackets). Briar prickles and poisonous plants are a reality you should be prepared for.
5. We are fortunate to have excellent facilities, please help keep the forestry and wildlife building clean.

POLICY ON CHEATING: Cheating will not be tolerated. A grade of 0% will be submitted for the quiz or exam in question, with further disciplinary action possible.

**LISTING OF THE FAMILIES & GENERA OF FORBS
THAT MAY BE ENCOUNTERED IN SOILS & HERBACEOUS VEGETATION**

AMARANTHACEAE (Amaranth Family)

Amaranthus
Froelicia

ARACEAE (Arum Family)

Arisaema
Peltandra

ASCLEPIADACEAE (Milkweed Family)

Asclepias
Matelea

ASTERACEAE (Composite Family)

Aster
Bidens
Cirsium
Coreopsis
Erigeron
Eupatorium
Helianthus
Lactuca
Senecio
Solidago

BRASSICACEAE (Mustard Family)

Brassica
Capsella

CONVOLVULACEAE (Morning glory Family)

Calystegia (Convolvulus)
Ipomoea
Jacquemontia

CYPERACEAE (Sedge Family)

Carex
Cyperus
Scirpus

DROSERACEAE (Sundew Family)

Drosera

EUPHORBIACEAE (Spurge Family)

Cnidoscolus
Euphorbia

GERANIACEAE (Geranium Family)

Geranium

JUNCACEAE (Rush Family)

Juncus

LAMIACEAE (Mint Family)

Lamium
Monarda
Scutellaria

FABACEAE (Bean Family)

Baptisia
Cassia
Desmodium
Lespedeza
Lupinus
Melilotus
Schrankia
Trifolium
Tephrosia
Vicia

LEMNACEAE (Duckweed Family)

Lemna

LILIACEAE (Lily Family)

Allium
Yucca

NYMPHAEACEAE (Water-lily Family)

Nelumbo
Nuphar
Nymphaea

ONAGRACEAE (Evening-primrose Family)

Ludwigia
Oenothera

PHYTOLACCACEAE (Pokeweed Family)

Phytolacca

POLYGONACEAE (Smartweed Family)

Polygonum
Rumex

SARRACENIACEAE (Pitcher-plant Family)

Sarracenia

SCROPHULARIACEAE (Figwort Family)

Penstemon
Verbascum
Linaria

SOLANACEAE (Nightshade Family)

Physalis
Solanum
Datura

TYPHACEAE

Typha