

NORTHEAST TEXAS COMMUNITY COLLEGE



Soil and Water Conservation Management
AGCR 2313
Course Syllabus

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AGCR 2313: Soil and Water Conservation



Soil and Water Conservation: AGCR 2313

Course Syllabus: Fall 2021

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Class-times	Office 9-10 SWC 11-12:20		Office 9-10 SWC 11-12:20		By appointment 8 am to noon	N/A
		By Appointment		By appointment		

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description:

Study of physical and chemical soil deterioration and loss, water conservation and principles for protection and maintenance of these resources. Topics include plant/water relationships, water conservation methods, basic terrace engineering principles, sediment loss and land use plans.

Workbooks (all will be made available through blackboard):

Reference Text (not required to purchase): Building Soils for Better Crops; Sustainable Soil Management
 Digital copy will be available on blackboard.

Required Textbook (ICEV access card):

You are required to purchase an ICEV access card in order to complete some class instruction and assignments for this course. You will only have to have one access card for any of the courses using ICEV this semester. Cards may be purchased through our college bookstore or on the ICEV site. We will walk through the steps on how to complete the work in ICEV on the first day of class.

General Course Requirements:

Class attendance is required. If you have more than three unexcused absences, you should consult with me about your grade. Anyone who wishes to withdraw from class must take the responsibility to formally drop with the Registrar; otherwise a failing grade will be given.

Student Learning Objectives: at the completion of this course student will:

1. Identify and summarize the principles of soil and water conservation.
2. Analyze and explain soil loss potentials and develop suggested treatment plans to protect soil resources.
3. Demonstrate water conservation, runoff and water quality maintenance techniques.
4. Evaluate land use and develop land use plans.

Grading:

Grades will be computed as follows:

(2) Exams:	50%
(2) Assignments – Presentations	20%
ICEV assessment grades:	30%

The grading scale below will be used to determine your final grade.

Points	Grade
90-100	A
80- 89	B
70- 79	C
60- 69	D
BELOW 59%	F

Exams:

There will be 2 exams accounting for 50% of your overall grade. Exams will be multiple choice and essay developed from classroom PowerPoint presentations, discussion and workbook. Review quizzes will be provided each week with exams occurring as materials are covered.

Assignments:

There will be at least two presentation assignments on farms that have made improvements in their soil health. Presentations will account for 20% of student’s overall grade.

Class Participation:

Class participation is based on attendance, classroom discussion, and participation and will account for 30% of the students overall grade.

Course Outline:

- Lesson 1: What is Agriculture?
- Lesson 2: Exploring Careers: Agriculture, Food & Natural Resources
- Lesson 3: Soil Formation and Evaluation
- Lesson 4: Soil Conservation
- Lesson 5: Water Resources
- Lesson 6: Water Measurement
- Lesson 7 Water Conservation in the Home
- Lesson 8 Introduction to Irrigation
- Lesson 9 Hydroponics
- Lesson 10: Fertilizers & Soil Amendments.
- Evaluation of Land Use
- Develop Conservation Plan
- Submit Grant Proposal to Texas Water Board

ADA Statement

It is the policy of Northeast Texas Community College to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the Northeast Texas Community College Catalog or Student Handbook.

ACADEMIC HONESTY POLICY

“Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook.”

Assignment #1

Open, review and print out this page of the syllabus for Soil Science.
Turn in this page for your first assignment grade.
Deadline to turn in will be the second full class day.

Student Name: _____

Major: _____

Purpose for taking this course:

Aspect you enjoy most about agriculture and farming?

Open and review the syllabus for soil science. Print out this page and complete and sign it to turn in the first class day. This will be your first assignment grade.

YES - I have reviewed the course syllabus and agree to the terms laid out in it.

Student name and ID

Date