NORTHEAST TEXAS COMMUNITY COLLEGE

Special Topics in Plant Protection Integrated Pest Management

AGCR 1393

Course Syllabus

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Special Topics in Plant Protection - IPM ~ AGCR 1393
Fall, 2018

Course Description:
Major agricultural disease and pest agents will be studied, focusing on the biology of the pests to include life cycle, structure, and typical hosts. Management and control utilizing least toxic methods will be emphasized, the foundation of which is healthy soils (3 credit hours) Lecture/Lab/Clinical: Two hours of lecture and three hours of lab each week. Note: Additional course fee(s) required. Lecture portions of this class will be via blackboard. Review of notes and then applied lab will be during class time.

Textbook:
No textbook required. Power points, handouts and lecture notes will provide material for study.

ICEV Access Card:
This course will be a pilot course for using a new on-line curriculum. Access cards will need to be purchased to access the course materials. Access cards will be available in the bookstore. Instructions on how to use them will be provided the first week of classes. You will be expected to purchase the card by the end of the first week of classes.

Course Goals:
This course is designed to provide students in agriculture an opportunity to learn integrated pest management through study of materials and application in NTCC gardens, greenhouse, and farm.

General Course Requirements:
Class attendance is required including attendance and participation on Blackboard lessons and on ICEV online curriculum. 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. The lecture portions of this class will be provided on Blackboard and ICEV. It will be the students responsibility to access their account and read, review and complete all on-line assignments by due dates. The computer lab in ag complex will be available at posted times for those students who do not have access to computer or internet elsewhere. Instruction and demonstration on use of blackboard and ICEV will be provided the first week of class.

Class Hours   **Office Hours**
MW Lecture and Lab 11-12:20   M-R 8:00am -10 am

Lecture/Lab will be alternated as weather allows. Most all labs will be applied in our gardens, landscape, greenhouse, vineyards and pasture areas. Students will be expected to dress accordingly for the lab and weather of that day.

Appointments with me may be scheduled at other times. Call for an appointment at (903) 434-8267, Office AGC 112. E-mail address: rmccracken@ntcc.edu

Course Objectives:
The student should be able to:

- Define Integrated Pest Management or IPM and demonstrate the proper use of it on agriculture enterprises.
- Define and describe beneficial insects and how to manage and attract them for farm and garden pest control.

- Describe how to control destructive pests organically and chemically.
- Define economic threshold as it relates to IPM.

Grading:

Grades will be computed as follows:

(1) Exam:		30%
(2) Exam:		30%
(2) Assignments – Case Studies		30%
Class Participation:		10%

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 60% of your overall grade. Exams will be multiple choice and essay developed from classroom PowerPoint presentations, discussion, and ICEV assignments and worksheets. Review quizzes will be provided each week with exam occurring mid-semester.

Assignments:
There will be two case study assignments on area sustainable agriculture farm businesses utilizing integrated pest management. Students will be expected to complete a case study and each will be graded on content and grammar. Case studies will account for 30% of student's overall grade.

Class Participation:
Class participation is based on attendance, classroom discussion, monitored access of blackboard assignments and participation. Every student is expected to participate fully.

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.**"

Course outline may be subject to change to take advantage of immediate course resources. For example if our hay pastures become infested with Army Worms we will alter the time of that scheduled lab to the observe and address the situation.

Course Outline:

Week 1   Course introduction, tool management, intro to Blackboard and other tools utilized in course.
Week 2   Define Integrated Pest Management
Week 3-4   Research and list organic methods of pest control
Week 5-6   Research and list beneficial insects and their habitats and management
Week 7-8   Define economic threshold for pesticide utilization
Week 9-10   Define and discuss pesticide applicator licenses and benefit to ag producer
Week 11-12   Identify top pests to vegetable crops and greenhouse production
Week 13-14   Identify top pests to field crops
Week 15-16   Summary and Review then Final Exam