

ARIZONA WESTERN COLLEGE

SYLLABUS

PLS 290 VEGETABLE CROP PRODUCTION

Credit Hours: 4 Lec: 3 Lab: 3

PREREQUISITE: None

NOTE: MAT 121 or higher recommended

COURSE DESCRIPTION

A practical approach to commercial vegetable production. Deals with the principles, economics, and production practices of principle vegetable crops grown in the Southwest.

1. COURSE GOALS

This course prepares learners

- 1.1 To grow, manage, and harvest vegetable crops
- 1.2 To identify and solve some of the problems facing production and distribution
- 1.3 To learn new and innovative production techniques
- 1.4 To define specific growth processes of each crop studied that leads to a harvestable product
- 1.5 To identify seed and plant characteristics of major vegetable crops

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 identify and demonstrate the basic principles of vegetable cropping systems and production
 - 2.1.1 identify land preparation techniques
 - 2.1.2 identify common cultural practices
 - 2.1.3 calculate seeding rates
 - 2.1.4 identify fertility requirements of each vegetable crop including the plant –soil relationship
 - 2.1.5 identify planting and harvest date intervals in relation to temperature and cultural practice
 - 2.1.6 identify common pests and pest control methods
 - 2.1.7 identify growth processes that lead to a marketable product at harvest
 - 2.1.8 identify methods of harvest
- 2.2 describe the history, importance and scope of the vegetable industry and the systems of plant improvement
- 2.3 identify common vegetable crop plants and seed
 - 2.3.1 identify the morphology of each vegetable crop
 - 2.3.2 identify the scientific name and common families
- 2.4 describe the world food supply, its distribution and how it relates to US production and marketing
- 2.5 identify the key components of crop production economics
 - 2.5.1 discuss crop contracts
 - 2.5.2 discuss cost of producing the crop
 - 2.5.3 discuss crop loss and the methods of avoiding complete failure
 - 2.5.4 complete harvest analysis and profit and loss statements

3. METHODS OF INSTRUCTION

- 3.1 Lectures by the professor or invited speakers
- 3.2 Instructional technology
- 3.3 Field laboratory exercises
- 3.4 Field trips
- 3.5 Discussion

4. LEARNING ACTIVITIES

- 4.1 Textbook reading assignments
- 4.2 Participation in class discussions
- 4.3 Lectures, demonstrations, and visual presentations
- 4.4 Written exercises and periodic exams
- 4.5 Lab quizzes, pest collections and reports
- 4.6 Field trips

5. EVALUATION

- 5.1 Written exams and quizzes
- 5.2 Class participation
- 5.3 Written assignments
- 5.4 Field collection

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
- 6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct which may include withdrawal from the course or an F grade.
- 6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.
- 6.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for “No Show” reporting during the first 10 days of each semester.
Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid.
For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):
 - Submitting an academic assignment
 - Taking an exam, an interactive tutorial or computer-assisted instruction
 - Attending a study group that is assigned by the school
 - Participating in an online discussion about academic matters
 - Initiating contact with a faculty member to ask a question about the academic subject studied in the course