

ARIZONA WESTERN COLLEGE  
SYLLABUS

## PLS 240 PLANT PROPAGATION

Credit Hours: 3 Lec 3

PREREQUISITE: None

COURSE DESCRIPTION

To prepare the student with knowledge and skills in sexual and asexual propagation of crops to include genetics and breeding practices, propagation techniques, and technology.

1. COURSE GOAL

This course prepares learners to propagate plants via sexual and asexual methods in laboratory and commercial settings.

2. OUTCOMES

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

- 2.1 identify the basic principles of sexual reproduction and its relationship with commercial seed production.
- 2.2 discuss the basic principles of crop breeding to include, self-pollination, cross-pollination, rogueing, and hybridization.
- 2.3 identify the basic principles of asexual reproduction and its relationship with commercial crop production.
- 2.4 describe the history, importance and scope of plant propagation and how plant propagation influences genetic engineering.
- 2.5 describe the processes required to grow and establish transplants commonly used in crop production.
- 2.6 analyze sexual propagation techniques used in commercial crop production- seeding geometry, seed depth, planting equipment, etc.
- 2.7 describe the processes required for grafting and budding in citrus as well as other asexual propagation methods utilized in the desert southwest; ie tomatoes or date palms.
- 2.8 identify the structure and function of flowers, roots, stems and leaves.

3. METHODS OF INSTRUCTION

- 3.1 Lectures by the professor or invited speakers
- 3.2 Audio-visual
- 3.3 Class Discussions through Blackboard

4. LEARNING ACTIVITIES

- 4.1 Textbook reading assignments
- 4.2 Participation in class discussions through Blackboard
- 4.3 Lectures, demonstrations, and visual presentations
- 4.4 Written exercises and periodic exams

5. EVALUATION

- 5.1 Written exams and quizzes
- 5.2 Class participation
- 5.3 Written assignments

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.

- 6.2 Classroom Assignments: Students are responsible for work missed and for completing all work before the next class meeting. Students are responsible for participating in all oral drills and for taking all exams.
- 6.3 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.
- 6.4 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.
- 6.5 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.
- 6.6 Textbooks and materials: Students are required to bring notebook or looseleaf book, pens, pencils, dictionaries, and purchase textbook required for class.
- 6.7 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