

ARIZONA WESTERN COLLEGE
SYLLABUS

PLS 108 PLANTS AND PEOPLE/GE

Credit Hours: 4 Lecture: 3 Lab: 3

PREREQUISITE: None

COURSE DESCRIPTION

Principles of plant biology and taxonomy with an emphasis on human relevance including plants as a source of food, fiber, medicine, and other commercially important uses.

1. COURSE GOAL

Increase awareness of modern, historical and regional perspectives on human use of plants with present-day application of plant uses of local Indian and Hispanic cultures.

2. OUTCOMES

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

- 2.1 identify the organelles of a plant cell and the function of each.
- 2.2 summarize major processes in photosynthesis.
- 2.3 describe the fundamental life cycle of flowering plants.
- 2.4 apply the basic rules of genetics to predict the outcome of a cross.
- 2.5 describe the advent of agriculture in human societies and how the fossil record elucidates this.
- 2.6 explain the role of plants as a food source.
- 2.7 discuss commercial products derived from plants.
- 2.8 discuss basic human nutrition and nutrients supplied by plants.
- 2.9 describe how man uses plants for medicine and renewed interest in herbal remedies.
- 2.10 discuss the importance of grains to human civilization.
- 2.11 discuss psychoactive drugs obtained from plants and their effect on the human body.
- 2.12 explain the importance of plant secondary products.
- 2.13 describe parts of plants that provide fiber products used by man including wood, cotton, hemp, and paper.
- 2.14 describe the origin and production of beverages obtained from plants including coffee, tea, and alcoholic beverages.
- 2.15 describe the "Green Revolution" and its significance.
- 2.16 discuss historical and present-day uses of plants locally by Native American and Hispanic cultures.
- 2.17 Discuss the use of biotechnology in agriculture.

3. AWC GENERAL EDUCATION (GE) CATEGORY & CRITERIA_
NATURAL SCIENCES

- How to describe, explain, and predict natural phenomena using scientific, logical, and quantitative reasoning and empirical evidence from observation and experimentation
- The history of scientific development
- How the tools and techniques of the natural sciences are applied to global and local issues such as sustainability, climate change, etc.
- The importance of investigating and understanding how natural phenomena varies by culture and location, including perspectives of indigenous peoples

4. METHODS OF INSTRUCTION

- 4.1 Lecture
- 4.2 Laboratory exercises
- 4.3 Instructional technology

- 4.4 Classroom demonstrations
- 4.5 Student discussions and presentations
- 4.6 Guest speakers

5. LEARNING ACTIVITIES

- 5.1 Class discussion
- 5.2 Lab exercises
- 5.3 Field trips
- 5.4 Assignments
- 5.5 Oral presentations
- 5.6 Group activities

6. EVALUATION

- 6.1 Quizzes and exams
- 6.2 Assignments
- 6.3 Activities

7. STUDENT RESPONSIBILITIES

- 7.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 7.2 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.
- 7.3 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.
- 7.4 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.
- 7.5 Texts and Notebooks: Students are required to obtain the class materials for the course.
- 7.6 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