

ARIZONA WESTERN COLLEGE
SYLLABUS

DFT 203 AutoCAD 3 – DRAFTING 3

Credit Hours: 4 Lec 3 Lab 2

PRE-REQUISITES: DFT 100 and DFT 102

COURSE DESCRIPTION

Introduction to advanced drafting techniques using CAD software, focusing on the creation and manipulation of three-dimensional models and objects.

1. COURSE GOAL

Students will explore the three-dimensional construction and viewing capabilities of AutoCAD, including a review of point coordinate entry and User Coordinate Systems. Three-Dimensional geometry construction, solid modeling, surface meshes and regions are introduced. Visual styles, materials, lighting and rendering techniques are also covered.

2. OUTCOMES

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

- 2.1 define and work with user-defined coordinate systems to aid in the construction of 3D objects
- 2.2 extract two-dimensional objects into 3D solid models
- 2.3 create and edit simple 3D solid models and objects
- 2.4 use a variety of 3D display techniques and apply various visual styles to a model
- 2.5 add materials and lighting to 3D models
- 2.6 perform basic rendering techniques to 3D models

3. METHODS OF INSTRUCTION

- 3.1 Lectures
- 3.2 Demonstrations
- 3.3 Instructional technology presentations
- 3.4 Outside classroom assignments
- 3.5 Formal and informal discussion

4. LEARNING ACTIVITIES

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

5. EVALUATION

- 5.1 Quizzes/exams
- 5.2 Assignments
- 5.3 Participation

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 Students who are not attending as of the 45th day of the course may be withdrawn by the instructor.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.
- 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