

ARIZONA WESTERN COLLEGE  
SYLLABUS

FSC 153 FIRE BEHAVIOR AND COMBUSTION

Credit Hours: 3 Lec 3

PREREQUISITE: None

COURSE DESCRIPTION

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

1. COURSE GOAL

To apply the concepts of physics, chemistry, and the behavioral characteristics of fire.

2. OUTCOMES

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

- 2.1 identify physical properties of the three states of matter.
- 2.2 categorize the components of fire.
- 2.3 identify the physical and chemical properties of fire.
- 2.4 describe and apply the process of burning.
- 2.5 define and use basic terms and concepts associated with the chemistry and dynamics of fire.
- 2.6 describe the dynamics of fire.
- 2.7 discuss the various materials and their relationship to fires as fuel.
- 2.8 define the characteristics of water as a fire suppression agent.
- 2.9 discuss other suppression agents and strategies.
- 2.10 compare other methods and techniques of fire extinguishment.

3. METHODS OF INSTRUCTION

- 3.1 Lecture and large/small group discussion
- 3.2 Audiovisual presentations
- 3.3 Written quizzes and examinations

4. LEARNING ACTIVITIES

- 4.1 Complete all reading and/or written assignments prior to class
- 4.2 Participate in the student centered class discussion utilizing the instructor as a resource person
- 4.3 Successfully pass all written and the final examination with at least 80% accuracy

5. EVALUATION

- 5.1 Written evaluations including a midterm and final examination 80%
- 5.2 Written and oral presentations 10%
- 5.3 Class participation 10%

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 Students who are not attending as of the 45th day of the course may be withdrawn by the instructor.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