

Fire Science Program Level Student Learning Outcomes

Students completing the Fire Science/Fire Service Management Program will be able to:

1. Demonstrate knowledge of the history, philosophy, function, and organization of fire service.
2. Demonstrate knowledge of terms and concepts related to fire service, firefighting, fire protection and fire investigation.
3. Demonstrate an understanding of the principles of fire development, cause, and prevention.
4. Demonstrate knowledge of basic fire fighting tactics and strategy.
5. Demonstrate the necessary information and related techniques to ensure effective fire scene operations.
6. Demonstrate knowledge of the problems and hazards to fire personnel when a building is attacked by fire or is under stress from other factors dealing with collapse.
7. Demonstrate knowledge of building construction principles, fire protection systems, and fire prevention codes.
8. Identify hazardous materials, hazardous properties, and successful emergency scene operations.
9. Understand the principles of supervision and management necessary for leadership and administration in the fire service.
10. Know the duties and responsibilities of Incident Command.
11. Demonstrate knowledge of the methods of attack and pre-planning for fire problems through team participation activities.
12. Demonstrate knowledge of how to determine a fire cause and preservation of evidence at a fire scene.