

<b>Name:</b>	<i>Principles of Emergency Services</i>
<b>Course Description:</b>	This course provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.
<b>Prerequisite:</b>	None.
<b>Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Describe and discuss the components of the history and philosophy of the modern day fire service.</li> <li>2. Analyze the basic components of fire as a chemical reaction, the major phases of fire, and examine the main factors that influence fire spread and fire behavior.</li> <li>3. Differentiate between fire service training and education; fire protection certificate program and a fire service degree program; and explain the value of education in the fire service.</li> <li>4. List and describe the major organizations that provide emergency response service and illustrate how they interrelate.</li> <li>5. Identify fire protection and emergency-service careers in both the public and in the private sector.</li> <li>6. Synthesize the role of national, state and local support organizations in fire protection and emergency services.</li> <li>7. Discuss and describe the scope, purpose, and organizational structure of fire and emergency services.</li> <li>8. Describe the common types of fire and emergency services facilities, equipment, and apparatus.</li> <li>9. Compare and contrast effective management concepts for various emergency situations.</li> <li>10. Identify and explain the components of fire prevention including code enforcement, public information, and public and private fire protection systems.</li> </ol>
<b>Suggested Student Texts:</b>	<i>Introduction to Fire Protection</i> , Robert Klinoff, Delmar <i>Introduction to Fire Science</i> , Loren Bush, Glencoe <i>NFPA Handbook</i> (CDROM licensing agreement available) <i>Principles of Fire Protection</i> , Percy Bugbee & Arthur Cote, NFPA <i>Firefighters Handbook</i> , Delmar <i>Fire Service Orientation and Terminology</i> , IFSTA

<p><b>Supporting References/Research for Faculty and Students:</b></p>	<p><b>U. S. Fire Administration</b>  <u>Publications</u> :  <a href="http://www.usfa.fema.gov/applications/publications/pubs_main.cfm">http://www.usfa.fema.gov/applications/publications/pubs_main.cfm</a>  See All Categories  <u>Applied Research</u>:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm</a>  <u>Research Reports</u>:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm</a>  <u>Technical Reports</u>:  <a href="http://www.usfa.fema.gov/applications/publications/techreps.cfm">http://www.usfa.fema.gov/applications/publications/techreps.cfm</a>  <u>Topical Fire Research Series</u>:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm</a>  Learning Resource Center:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm</a>  <b>National Institute for Standards and Technology</b>  <a href="http://www.fire.nist.gov">http://www.fire.nist.gov</a>: Fire Tests/Data, Software/Models, Publications, FIREDOC (under Publications)  <b>References</b>  <i>Strategic and Tactical Considerations on the Fire Ground (and Instructor's Guide)</i>; James Smith, Brady-Prentice Hall  <i>Strategic and Tactical Considerations on the Fire Ground Study Guide</i>;  James Smith, Trafford Press  <b>Current Events/News</b>  <a href="http://www.firehouse.com/">http://www.firehouse.com/</a>  <a href="http://www.fireengineering.com/">http://www.fireengineering.com/</a>  <a href="http://www.withthecommand.com/">http://www.withthecommand.com/</a></p>
<p><b>Assessment:</b></p>	<p>Students will be evaluated for mastery of learning objectives by methods of evaluation to be determined by the instructor.</p>
<p><b>Points of Contact:</b></p>	<p>Richard Bennett, University of Akron, Ohio,  (330) 972-7233, <a href="mailto:www.bennet3@uakron.edu">www.bennet3@uakron.edu</a>  Clinton Smoke, Asheville -Buncombe Technical Community College, North Carolina, (828) 254- 1921 Ext 844. <a href="mailto:csmoke@asheville.cc.nc.us">csmoke@asheville.cc.nc.us</a></p>

## Course Outline

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### *Principles of Emergency Services*

- I. Careers in the Fire Protection/Emergency Services
  - A. Opportunities/Private, Industrial, Local, Municipal, State and Federal
  - B. Pay, Hours of Duty, Benefits, Promotion and Retirement Qualifications
  - C. Work Ethics and Human Relations Education and Training
    - 1. Certificates
    - 2. Degrees
  - D. Selection Process
- II. History
  - A. Evolution of the Fire Protection
  - B. The U.S. Fire Problem: Life and Property
- III. Fire Prevention and Public Fire Education
  - A. Fire Investigation
  - B. Code Enforcement
  - C. Public Education
- IV. Scientific Terminology
  - A. Fire Behavior
  - B. Flammability and Characteristics of Solids, Liquids and Gases.
- V. Building Design and Construction
- VI. Fire Detection and Suppression Systems
- VII. The Role of Public and Private Support Organizations
  - A. Local
  - B. State
  - C. Federal and National
  - D. International
- VIII. Fire and Emergency Services Equipment and Facilities
- IX. Management
  - A. Emergency Operations
  - B. Organizational Structure of Fire and Emergency Services