COURSE INFORMATION FORM

DISCIPLINE
Fire Science

COURSE TITLE
Fire Prevention

CR. HR.  3  LECT HR.  ________  LAB HR.  ________  CLIN/INTERN HR.  ________  CLOCK HR.  ________

CATALOG DESCRIPTION
This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

PREREQUISITES
None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Define the national fire problem and role of fire prevention.
2. Identify and describe fire prevention organizations and associations.
3. Define laws, rules, regulations, and codes and identify those relevant to fire prevention of the authority having jurisdiction.
4. Define the functions of a fire prevention bureau.
5. Describe inspection practices and procedures.
7. List opportunities in professional development for fire prevention personnel.
8. Describe the history and philosophy of fire prevention.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

3 Lifelong Learning

B. Personal and Professional Development
   • Pursue structured learning opportunities, certification, and/or degrees (1-8)

C. Attributes of an Awareness of the Convergence of Knowledge
   • Apply learned skills to real world interactions (1-8)
   • Synthesize information to facilitate application (1-8)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

The student will explain the history and origins of the Fire and Emergency Services
• Accurately interprets historical events that have lead to the development of the fire service industry, equipment and fire Codes
• Demonstrates the use of fire service communications during emergency and non-emergency operations

The student will be able to explain and demonstrate the ability to conduct, fire inspection and public relation events
• Recognize the fire codes, elements and procedures relating to fire inspections
• Demonstrate the ability to prepare a residential and commercial pre-incident survey
• Demonstrate the ability to present fire safety lectures and educational classes for adults and children
• Recognize the elements and parts of a fire sprinkler and detection system

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

All eight student outcomes will be assessed by written examination
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

Course Outline

Fire Prevention

I. National Fire Problem and Role of Fire Prevention
   A. Definition
   B. Historical Overview
   C. Data Analysis/GIS
   D. Current Trends of Fire Prevention

II. Fire Prevention Organizations and Associations
   A. Public -- Federal, State and Local
   B. Private -- International, National and Regional

III. Laws, Rules, Regulations and Codes
   A. Definitions
   B. Applicability
   C. Interrelationship
   D. Limitations

IV. Fire Prevention Bureau Functions
   A. Data Collection and Analysis
   B. Plans Review
   C. Fire Inspections
   D. Fire and Life Safety Education
   E. Fire Investigations

V. Tools and Equipment
   A. Data Collection and Analysis
   B. Plans Review
   C. Fire Inspections
   D. Fire and Life Safety Education
   E. Fire Investigations

VI. Roles and Responsibilities of Fire Prevention Personnel
   A. Data Collection and Analysis
   B. Code Development and Interpretation
   C. Training and Education
   D. Enforcement
   E. Management

VII. Professional Certification

Revised 3/22/11
A. Categories and Levels  
B. Local  
C. State  
D. National  

VIII. Professional Development  
A. National Fire Prevention Development Model  
B. Training and Education  
C. Certification systems