

FIP 188
INTRODUCTION TO WILDLAND FIRE

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course introduces basic wildland fire suppression functions. Emphasis is on the operation of tools, equipment, aircraft, and basic fire suppression methods. Upon completion, students should be able to understand basic theories in wildland fire suppression and demonstrate them through written and performance evaluations. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

COURSE OBJECTIVES:

Upon completion of this course the student will be able to:

- a. Understand types of fuels and terrain.
- b. Determine rate of spread.
- c. Identify basic weather conditions.
- d. Apply the Standard Fire Orders.
- e. Utilize basic firefighting equipment and its care and maintenance.
- f. Construct a fire line
- g. Identify the use of fire apparatus in relation to the wildland environment.
- h. Recognize and use water delivery systems.
- i. Determine correct extinguishing agents.
- j. Understand the role of air tankers
- k. Categorize aircraft types.
- l. establish an air tanker base (both fixed and rotary wing).
- m. Understand the considerations of weather and fuel and the environmental effects, in a prescribed burn.
- n. Determine the proper firing techniques for a prescribed burn.

OUTLINE OF INSTRUCTION:

- I. Firefighting principles
 - A. Pre-suppression
 - B. Fire behavior
 - C. Fire suppression
 - D. Operation of firefighting equipment
 - E. Care storage and maintenance of equipment
- II. Water handling equipment
 - A. Pumps
 - B. Fire engines
 - C. Water tenders
 - D. Foam generating equipment
 - E. Water delivery components and accessories
- III. Extinguishing agents

- A. Water
 - B. Foam
 - C. Retardants
 - D. Suppressants
- IV. Air operations
- A. Air tanker base operations
 - B. Helibase manager
 - C. Fixed wing base manager
 - D. Communications
 - E. Tactical use criteria
 - F. Administrative procedures
- V. Prescribed burns
- A. Environmental effects
 - B. Weather and fuel considerations
 - C. Firing techniques
 - D. Planning the burn
 - E. Preparing for the prescribed burn

REQUIRED TEXTBOOKS AND MATERIALS:

National Wildfire Coordinating Group. Introduction to Wildland Fire Suppression. National Wildfire Coordinating Group Publication.

National Wildfire Coordinating Group. S-190 Introduction to Fire Behavior Student Workbook. National Wildfire Coordinating Group Publication.

National Wildfire Coordinating Group. S-211 Portable Pumps and Water Use Student Workbook. National Wildfire Coordinating Group Publication.

National Wildfire Coordinating Group. Fireline Handbook and Appendix - Fire Behavior Supplement. National Wildfire Coordinating Group Publication.

Suggested references, periodicals.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.