

ENR 3335.01—INTRODUCTION TO WILDLAND FIRE MANAGEMENT

Course Syllabus

Fall Semester 2017

Objectives The student will gain an understanding of fire behavior, the factors affecting this behavior, fire safety, effective control of wildland fires, and how to use prescribed fire in wildfire management and other ecosystem objectives. This course will meet the requirements and standards prescribed for courses developed under the interagency curriculum established and coordinated by the National Wildfire Coordinating Group, specifically courses designated as I-100 (Incident Management) and S-190 (Wildland Fire Behavior).

Credit Hours 2 U

Pre-requisites: None

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Office hours: T, H 1pm – 3pm
Kottman Hall, room 382

Course Time/Place Monday, 6:30pm—8:20pm; Kottman Hall 333

Textbooks Course material will be provided by instructors. Reading assignments may be given during the course.

Course Evaluation And Grading	Quizzes—	30%
	Exam 1—	35%
	Exam 2—	35%
	TOTAL:	100%

Numeric Grade	Letter Grade	Numeric Grade	Letter Grade
100 – 93	A	79 – 77	C +
92 – 90	A -	76 – 73	C
89 – 87	B +	72 – 70	C -
86 – 83	B	69 – 67	D +
82 – 80	B -	66 – 60	D
		59 – 0	E

A quiz will be given at the beginning of each lecture period that covers material presented during the previous class. Two exams will be administered in the course, with the first exam covering topics covered during the first half of the course, and the second exam covering topics covered during the second half of the course.

Academic Misconduct The following offenses will result in charges of academic misconduct with the appropriate action taken in response:

1. The submission of plagiarized work to meet academic requirements including the representation of another's works or ideas as one's own; the unacknowledged work for use and/or the paraphrasing of another's work; the inappropriate unacknowledged use of another person's ideas; or the falsification, fabrication, or dishonesty in reporting results of any research or findings.
2. Any form of cheating on exams or other class work.

Disabilities Statement The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

COURSE OUTLINE

DATE	TOPIC	INSTRUCTOR
August 28	Introduction to the Course; The combustion process in wildland settings	RW
September 4	Labor Day - NO CLASS	
11	Intrinsic Fuel Properties; Heat and Heat Transfer; Fuel Consumption	RW
18	<u>Fire Behavior</u> : The Fire Environment, Fire Growth, Fire Spread and Intensity, Extreme	MB
25	Fire History, Fire Ecology- Plant and Ecosystem Adaptations	RW
October 2	<u>Fire Weather</u> : Basic Weather Concepts and Processes, Atmospheric Stability, Winds-General, Local, and Topographic Effects, Fire Climate and Fire Season	MB
9	<u>Wildland Fuels</u> : Fuel Change over Time, Fuel Description and Properties, Fuel Classification, Fuel Moisture	MB
16	EXAM 1 (includes the Federal S-190 exam)	RW
23	Fire Ecology at Landscape Scales, Historical Fire Regimes vs. Current Conditions	RW
30	Fire Historical Uses and Impacts; Current Fire Management Issues	RW
November 6	Programs and Methods for Fire Management	RW
13	Fire Suppression	MB
20	Prescribed Fire- Purpose and Management Considerations	RW
27	Prescribed Fire- Planning and Implementation	MB
December 4	EXAM 2 (Covers material after EXAM 1)	RW