

ENR 3335.01— INTRODUCTION TO WILDLAND FIRE MANAGEMENT

Course Syllabus

Fall Semester 2018

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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TEACHING ASSISTANT Rachael Glover
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MEETING 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%

A quiz will be given at the beginning of each class period, except when the exam is given. Each quiz will cover only topics covered in the previous lecture.

Grading Scale

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

- ACADEMIC MISCONDUCT** It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct at <http://studentconduct.osu.edu>
- DISABILITIES STATEMENT** Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 098 Baker Hall, 113 W. 12th Avenue; telephone 292-3307, TDD 292-0901, VRS 429-1334; <http://www.ods.ohio-state.edu/>.
- GRIEVANCES** According to University Policies, if you have a problem with this class, you should seek to resolve the grievance concerning a grade or academic practice by speaking first with the instructor or professor. Then, if necessary, take your case to the department chairperson, college dean or associate dean, and to the provost, in that order. Specific procedures are outlined in Faculty Rule 3335-7-23. Grievances against graduate, research, and teaching assistants should be submitted first to the supervising instructor, then to the chairperson of the assistant's department.
- DIVERSITY** The Ohio State University affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. We are committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among each member of our community; and encourages each individual to strive to reach his or her own potential. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.
- COUNSELING SERVICES** As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life Counseling and Consultation Services (CCS) by visiting ccs.osu.edu or calling (614) 292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on-call counselor when CCS is closed at (614) 292-5766 and 24 hour emergency help is also available through the 24/7 National Prevention Hotline at 1-(800)-273-TALK or at suicidepreventionlifeline.org

COURSE OUTLINE

DATE	TOPIC	INSTRUCTOR
August 27	Introduction to the Course; The combustion process in wildland settings	RW
September 3	Labor Day - NO CLASS	
10	Intrinsic Fuel Properties; Heat and Heat Transfer; Fuel Consumption	RW
17	<u>Fire Behavior</u> : The Fire Environment, Fire Growth, Fire Spread and Intensity, Extreme	MB
24	<u>Fire Weather</u> : Basic Weather Concepts and Processes, Atmospheric Stability, Winds-General, Local, and Topographic Effects, Fire Climate and Fire Season	MB
1	<u>Wildland Fuels</u> : Fuel Change over Time, Fuel Description and Properties, Fuel Classification, Fuel Moisture	MB
October 8	EXAM 1 (includes the Federal S-190 exam)	RW
15	Fire History, Fire Ecology- Plant and Ecosystem Adaptations; Fire Ecology at Landscape Scales, Historical Fire Regimes vs. Current Conditions	RW
22	Fire Historical Uses and Impacts; Current Fire Management Issues	RW
29	Programs and Methods for Fire Management	RW
November 5	Fire Suppression	MB
12	NO CLASS – Veteran’s Day Observed	
19	Prescribed Fire- Purpose and Management Considerations	RW
26	Prescribed Fire- Planning and Implementation	MB
December 3	EXAM 2 (Covers material after EXAM 1)	RW