

ENR 3335.02— WILDLAND FIRE LABORATORY

Course Syllabus
Fall Semester 2023



Kottman Hall 333
Wednesday, 6:30pm—9:45pm

COURSE DESCRIPTION: The student will learn basic firefighting skills through hands-on demonstrations, visual demonstrations, and other media such as videos. This includes safety, communication, and organization of crews, the proper use of various tools and apparatus, and methodologies. This course will meet the requirements and standards prescribed for the S-130 course (Wildland Firefighter Training), I-100 (Introduction to the Incident Command System), and L-180 (Human Factors in the Wildland Fire Service) developed under the interagency curriculum established and coordinated by the National Wildfire Coordinating Group. Students who successfully complete this course, combined with S-190 qualifications achieved in ENR 3335.01, will be qualified to suppress wildland fires while under close supervision.

Credit Hours: 1 U
Pre-requisite: None

INSTRUCTORS:

Dr. Roger A. Williams
Associate Professor
Forest Management and Fire Science
367-C Kottman Hall
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Mr. Mike Bowden
Lecturer
Ohio Dept. of Natural Resources
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TEACHING ASSISTANT

Monika Moreu-Vicente
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TEXTBOOKS

Course materials required for this course will be provided by instructors on the Carmen webpage. Reading assignments may be given during the course.

COURSE GRADING AND EVALUATION

Graded item	% of Total Grade
Quizzes	50%
Exam	50%
Total Percentage	100%



Letter	Percent	Letter	Percent	Letter	Percent
A	93-100 %	B –	79-82 %	D +	66-68 %
A –	89-92 %	C +	76-78 %	D	60-65 %
B +	86-88 %	C	73-75 %	E	<60 %
B	83-85 %	C –	69-72 %		

Quizzes:

Quizzes will be administered in person at the beginning of each class. The quiz will cover material from the previous week's class only. Please review the assignment schedule for more information.

Exams:

One exam, the S-130 exam, will be given at the end of this course, and will be administered in-person on the assigned date. Students must receive a score of 70% or higher to be red card certified, and 60% or higher to pass the exam for the course.

Final Course Evaluation

The Carmen website will not be used to determine the final course grade. The Carmen website will be used to post the recorded grades so that you can see what grades have been recorded on your behalf and can detect if any errors have been made. The final course grade will be determined with the following formula:

$$\text{Final Grade} = (\text{Quiz grade} \times 0.30) + (\text{Exam \#1 grade} \times 0.35) + (\text{Exam \#2 grade} \times 0.35)$$

Where the Quiz grade = (total quiz points/100 points) x 100

Assignment Schedule:

DATE	ASSIGNMENT	ASSIGNMENT INFORMATION
September 6	Quiz #1	Covers material in Lecture #2; Administered In-person
September 13	Quiz #2	Covers material in Lecture #3; Administered In-person
September 20	Quiz #3	Covers material in Lecture #4; Administered In-person
September 27	Quiz #4	Covers material in Lecture #5; Administered In-person
September 30	Field Lab	OSU-Marion Campus, 8:30 am
October 4	Quiz #5	Covers material in Lecture #6; Administered In-person
October 11	Quiz #6	Covers material in Lecture #7; Administered In-person
October 18	Quiz #7	Covers material in Lecture #8; Administered In-person
October 25	Quiz #8	Covers material from Lecture #9; Administered In-person
November 1	S-130 Exam	Covers material from Lectures 2 – 11; Administered In-person

Saturday Field Day is required and scheduled for Saturday September 30 on the OSU Marion campus. This field day is required as part of completing the S-130 certification. Attendance is therefore mandatory for certification. Topics covered include: Hand tool use; fire line construction; hose lays and water use; water pump use; use of ignition devices; fire shelter deployment. A prescribed burn will be conducted in the afternoon, weather permitting.

COURSE OUTLINE

NOTE: Because the instructor will be on a workshop panel at the Northeast-Midwest Regional Prescribed Fire Science and Management Workshop in Madison, WI, only the second lecture will be conducted via Zoom, and only the second lecture. The link is provided in the course outline.

DATE	LECTURE	TOPIC	INSTRUCTOR
August 23	1	Introduction to Course; course expectations and requirements. Overview of Wildland Fire Fighting; S-110 Basic Wildland Fire Orientation	RW
30	2	Introduction, Terminology, and Preparedness** Zoom Meeting	RW

			https://osu.zoom.us/j/97171835694?pwd=MnoyNSszOEJOYVErMEhnNDNDDeGVwZz09	
September	6	3	Water, Firing Devices	MB
	13	4	Mop-up Procedures	RW
	20	5	Transportation Safety, Hand tools, Suppression Techniques	MB
	27	6	Risk Management: Watchouts, Fire Orders, LCEs, Fire Shelters	MB
	30	---	Field Lab (Marion campus, 8:30am – 3:30pm)	RW, MB
October	4	7	ICS, Types of Resources	MB
	11	8	Wildland-Urban Interface, Haz-Mat Situations, Yarnell Hill Fire (case study)	MB
	18	9	Risk Management: The Human Factor	MB
	25	10	Map and Compass Reading	MB
November	1	---	EXAM (Federal S-130 Exam)- No Lab Meeting	RW
	8	---	Optional Pack Test (Location TBD)	RW

**** Because the instructor will be on a workshop panel at the Northeast-Midwest Regional Prescribed Fire Science and Management Workshop in Madison, WI, only the second lecture will be conducted via Zoom.**

THE INCIDENT QUALIFICATION CARD (RED CARD) AND PACK TEST

The Incident Qualification Card, commonly called a Red Card, is an accepted interagency certification that a person is qualified to do the required job when arriving on an incident.

The National Wildfire Coordinating Group sets minimum training, experience, and physical fitness standards for wildland fire positions. Incident Qualification Cards are issued to individuals who successfully complete the required training, experience, and work capacity test (also known as the pack test) by the firefighting agencies that are members of the National Wildfire Coordinating Group. You will be certified as a Firefighter Type 2 (FFT2).

The S-130 certificate issued after successful completion of the S-130 education component in this course, ENR 3335.02 (which also includes I-100 and L-180), serves as proof of training, so students should keep the certificates in their personal files. This certificate, along with the S-190 certificate acquired in ENR 3335.01, can be presented at federal and state agencies across the country as proof of training. Certificates expire after 5 years of inactivity.

All agencies and organizations will give you a pack test upon hire if being red card certified is a job requirement. While S-130/190 certificates are good for 5 years, the pack test is issued annually and at the time of hire by agencies. An optional pack test will be administered in this course to those who choose to participate- it is not mandatory for reasons previously stated and not required for passage of this course or receipt of the S-130 certificate. However, if you choose to take the test and pass, you will be given a certificate that provides proof of passing the test. The pack test involves walking 3 miles carrying a 45 pound backpack within a time limit of 45 minutes. More details will be provided in class.

POLICIES AND RESOURCES

COVID-19 Policies

It is required and expected that all students will adhere to and be compliant with the university's COVID-19 policies that are in place during the course. Non-compliance and non-adherence may result

in a student's discipline based on university COVID policies of such matter. University COVID policies can change during a course, and students must remain compliant with those policy changes.

General Class Policies

This class is delivered in a face-to-face venue, and class attendance is required. All recorded lectures, PowerPoint slides and class materials will be available online through the Carmen website. Due to the nature of the course delivery, there will be no opportunities for make-up assignments. The only exceptions will be in extreme cases, as determined by instructors, and the instructors must be contacted ahead of time regarding the nature of the problem if at all possible. All personal information/situations will be kept extremely confidential. If you experience any problems or have any questions you should contact either Dr. Williams or Mr. Bowden at the contact information listed on the first page of this syllabus.

Many studies have been conducted to demonstrate a direct correlation with classroom attendance and a student's performance in the course. While attendance will not be recorded at every class meeting, random attendance checks will be conducted. Continued absence will be noted, and a student's absenteeism will call into question that student's interest in the course and subject.

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). If any academic conduct is suspected, the student will be contacted initially in confidentiality and presented evidence of said misconduct. The student will have the opportunity to rebut any evidence brought forward. If the case cannot be resolved, the information and evidence will be brought forward to the Committee on Academic Misconduct for appropriate resolution. For additional information, see the Code of Student Conduct at <http://studentconduct.osu.edu>.

As it pertains to this particular course, if it is discovered that there is cheating taking place in regard to quizzes or exams, any remaining quizzes and exams will be conducted in class and proper disciplinary action will take place pertaining to the individual(s) in question.

Disabilities Statement

The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. 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 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 it 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.

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.

Counseling Services/Mental Health

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.

David Wirt, wirt.9@osu.edu, is the CFAES embedded mental health counselor. He is available for new consultations and to establish routine care. To schedule with David, please call 614-292-5766. Students should mention their affiliation with CFAES when setting up a phone screening.

Creating an Environment Free From Harassment, Discrimination, and Sexual Misconduct

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Office of Institutional Equity:

1. Online reporting form at equity.osu.edu,
2. Call 614-247-5838 or TTY 614-688-8605,
3. Or Email equity@osu.edu

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university employees have reporting responsibilities to the Office of Institutional Equity to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.

- The following employees have an obligation to report all other forms of sexual misconduct as soon as practicable but at most within five workdays of becoming aware of such information: 1. Any human resource professional (HRP); 2. Anyone who supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty member.

This course adheres to The Principles of Community adopted by the College of Food, Agricultural, and Environmental Sciences. These principles are located on the Carmen site for this course; and can also be found at <https://go.osu.edu/principlesofcommunity>. For additional information on Diversity, Equity, and Inclusion in CFAES, contact the CFAES Office for Diversity, Equity, and Inclusion (<https://equityandinclusion.cfaes.ohio-state.edu/>). If you have been a victim of or a witness to a bias incident, you can report it online and anonymously (if you choose) at <https://studentlife.osu.edu/bias/report-a-bias-incident.aspx>.