

## ENR 3335.02— WILDLAND FIRE LABORATORY

Course Syllabus  
Fall Semester 2022

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  
Phone: 614-946-5698  
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**Mr. Mike Bowden**

Lecturer  
Ohio Dept. of Natural Resources  
Phone: 614-313-3006  
Email: mbowden66@sbcglobal.net



**CERTIFICATION STATEMENT**  
on behalf of the  
**NATIONAL WILDFIRE COORDINATING GROUP**

*The following training material attains the standards prescribed for courses developed under the interagency curriculum established and coordinated by the National Wildfire Coordinating Group. The instruction is certified for interagency use and is known as:*

**Firefighter Training, S-130  
Certified at Level I  
L-180 Human Factors on the Fireline  
1-100 Intro to ICS**

**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%
<b>Total Percentage</b>	<b>100%</b>

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 on the Carmen website and will be available to take on the assigned date from 12:00am – 11:59pm. The quiz must be taken within this time frame as this will be the only opportunity to take a particular quiz. Once a quiz has started you must complete it as you will be given one opportunity to take each quiz, and a time limit of 20 minutes will be given to take the quiz. Each quiz will cover the previous lecture material. Please review the assignment schedule table for more details.

**Exams:**

One exam, the S-130 exam, will be given at the end of this course, which will be administered through the Carmen website. The exam will be available to take on the assigned date from 12:00am – 11:59pm. The exam must be taken within this time frame as this will be the only opportunity to take the exam. Once the exam has started you must complete it as you will be given only one opportunity to take the exam, and a time limit of 195 minutes will be given to take the exam. Please review the assignment schedule table for more details. Since the exam is administered online, there will no class meeting on that day.

**Assignment Schedule:**

DATE	ASSIGNMENT	ASSIGNMENT INFORMATION
<b>September 7</b> 12:00am – 11:59pm	<b>Quiz #1</b>	Covers material in Lecture #2; Available only on Carmen
<b>September 14</b> 12:00am – 11:59pm	<b>Quiz #2</b>	Covers material in Lecture #3; Available only on Carmen
<b>September 21</b> 12:00am – 11:59pm	<b>Quiz #3</b>	Covers material in Lecture #4; Available only on Carmen
<b>September 28</b> 12:00am – 11:59pm	<b>Quiz #4</b>	Covers material in Lecture #5; Available only on Carmen
<b>October 5</b> 12:00am – 11:59pm	<b>Quiz #5</b>	Covers material in Lecture #6; Available only on Carmen
<b>October 8</b> 8:30am – 3:30pm	<b>Field Day</b>	Yoder Prairie at OSU Marion Campus; 8:30am – 3:00pm
<b>October 26</b> 12:00am – 11:59pm	<b>Quiz #6</b>	Covers material in Lecture #7; Available only on Carmen
<b>November 2</b> 12:00am – 11:59pm	<b>Quiz #7</b>	Covers material in Lecture #8; Available only on Carmen
<b>November 9</b> 12:00am – 11:59pm	<b>Quiz #8</b>	Covers material from Lecture #9; Available only on Carmen
<b>November 16</b> 12:00am – 11:59pm	<b>Quiz #9</b>	Covers material from Lecture #10; Available only on Carmen
<b>November 30</b> 12:00am – 11:59pm	<b>S-130 Exam</b>	Covers material from Lectures 2 – 11; Available only on Carmen

**Saturday Field Day is required and scheduled for Saturday October 8 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

DATE	LECTURE	TOPIC	INSTRUCTOR	
<b>August</b>	24	1	Introduction to Course; course expectations and requirements	RW
	31	2	Overview of Wildland Fire Fighting; S-110 Basic Wildland Fire Orientation	RW
<b>September</b>	7	3	Introduction, Terminology, and Preparedness	RW
	14	4	Water, Firing Devices	MB
	21	5	Risk Management: Watchouts, Fire Orders, LCES, Fire Shelters	MB
	28	6	Transportation Safety, Hand tools, Suppression Techniques	MB
<b>October</b>	5	7	Mop-up Procedures	MB
	8		<b>Field Lab (Marion campus, 8:30am – 3:30pm)</b>	MB, RW
	12	---	<b>NO LAB</b>	---
	19	---	<b>NO LAB</b>	---
	26	8	ICS, Types of Resources	MB
<b>November</b>	2	9	Wildland-Urban Interface, Haz-Mat Situations, Yarnell Hill Fire (case study)	MB
	9	10	Risk Management: The Human Factor	MB
	16	11	Map and Compass Reading	MB
	23	---	<b>NO LAB- Thanksgiving Holidays</b>	
	30	---	<b>EXAM (Federal S-130 Exam)- No Lab Meeting</b>	RW
December	7	---	<b>Optional Pack Test (Location TBD)</b>	RW

## 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 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 contact 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 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](mailto:slds@osu.edu); 614-292-3307; [slds.osu.edu](http://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](http://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](http://suicidepreventionlifeline.org).

David Wirt, [wirt.9@osu.edu](mailto: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](http://equity.osu.edu),
2. Call 614-247-5838 or TTY 614-688-8605,
3. Or Email [equity@osu.edu](mailto: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>.