

FOR 326: WILDFIRE PREVENTION & MNGT.

Syllabus – Fall 2022

THIS CLASS IS FULLY ONLINE in 2022 & LECTURES ARE DELIVERED* at CLASS TIME

INSTRUCTOR & OFFICE HOURS : Steven R. Miller **Office Hours**: I am teaching remotely and can schedule time to meet with you. Please email stmiller@uwsp.edu or call (386) 937-0554 to schedule an appointment.

IMPORTANT NOTE!! Canvas is used to present the class. All lectures will be recorded and posted in Canvas. There will be one or two PowerPoints for each lecture period

CLASS TIME : 6 :00 – 7 :50 pm, Tuesday; from 11/1 – 12/13.

LEARNING OBJECTIVES. Upon completion of this class, students will be able to:

1. Use and explain important fuel properties and relevant aspects of fire behavior;
2. Explain how fires affect management and ecological functions of forests and rural landscapes;
3. Describe the role of wildland fire in the Wildland Urban Interface [WUI] challenge of the 21st century;
4. Describe how detection and suppression of wildfires has changed over time;
5. Describe the options and strategies for preventing wildfires; and
6. Explain the management strategies to minimize occurrence, size & the effects of large fires.

MISCELLANEOUS

Extension on a deadline will ONLY be granted to students whose absence was excused, or who provide evidence of hardship. Please let the instructor know ahead of time for any excused absences, such as military commitments.

GRADING

Grades for this class will be calculated as follows:

ACTIVITY

- A. "Lab" assignment - BEHAVE due 11/15
- B. Issue paper due 12/6
- C. Final exam (online through Canvas)
- D. Group Participation & discussion

WEIGHT

- 15%
- 35%
- 40%
- 10%
- 100%

<u>Score</u>	<u>Letter Grade</u>	<u>Score</u>	<u>Letter Grade</u>
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
		<60	F

LECTURE SCHEDULE

Week	Date	Topic	Handouts/Assignment
1	11/1	Class structure & grading PART 1: Wildfire situation in U.S. PART 2: Physics of fire: fuel properties, combustion and heat transfer	
2	11/8	Wildfire occurrence & causes, regional differences & role of drought	Handouts
3	11/15	Fire effects on forests; 20th century fuel changes due to land management	Behave Assignment Due
4	11/22	Fire policy in U.S.; planning, detection & organization	Handouts

5	11/29	Crown fire initiation; risk of crown fires; strategy vs. tactics	
6	12/6	Management for wildfires	Handouts/Issue paper due
7	12/13	Options for prevention	Handouts
8		Final online through Canvas	Final exam

*Handouts are available in Canvas

FINAL EXAM: The final exam will be on-line through Canvas. It will be available immediately following the 12/13/2022 lecture, and will remain available until the normally scheduled class time on 12/20. A link is given below if you need to read about the university policies about Academic Conduct.

BEHAVE Assignment is available in Canvas and is due November 15th. This software is on the UWSP system, and also can be downloaded from: "www.frames.gov/behaveplus/". Go to the 'Software/Manual' tab to find the program. You want Version 5.0.5, NOT the Beta version. A user manual is also available on this site.

Issue Paper. A list of possible topics is provided on the handout for the assignment. We will discuss the details of the assignment on 11/1. The **due date is December 6th**.

Group Discussion. Based on your work associated with your issue paper we will discuss options for the future of fire management during class on 12/13

UWSP COMMUNITY RIGHTS AND RESPONSIBILITIES

UWSP values a safe, honest, and respectful learning environment. To ensure that each student has the opportunity to succeed, the University has developed a set of expectations for all students and instructors called the *Rights and Responsibilities* document, which can be found at <http://www.uwsp.edu/stuaffairs/Pages/rightsandresponsibilities.aspx>

Academic integrity is essential to the University mission and success in life. Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated. Do not do it! The minimum penalty for a violation of academic integrity is a failure (zero) for the assignment. See "Student Academic Standards and Disciplinary Procedures" section of the *Rights and Responsibilities* document (<http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf>).

Trust between students and instructors is of paramount importance in academic settings. Academic dishonesty will not be tolerated in the classroom (e.g., cheating on exams) or out-of-class assignments. Students found cheating will be punished to the fullest extent that University policy permits.

EMERGENCY PROCEDURES

- In the event of a medical emergency call 911 or use Red Emergency Phone in the south hallway of the TNR, outside of TNR 153. Offer assistance if trained and willing to do so. Guide Emergency Responders to victim.
- In the event of a tornado warning, go to a room that serves as a tornado shelter, are go into the hallway, well away from any windows or glass
- In the event of a fire alarm, evacuate the building in a calm manner. Meet on the east side of the TNR building, close to Reserve St. Notify instructor or emergency command personnel of any missing individuals.

COVID-19 and other precautions

We will follow university guidance (which includes CDC guidance) regarding COVID-19, monkeypox, and other health-related issues. Please reference the [UWSP's website related to COVID](#). The [CDC website](#) provides guidance on isolation and precautions related to COVID. As needed, we will announce policy changes that affect you in this class. It is expected that everyone will respect the needs and preferences of classmates and instructors.

Semester drop/add date reminders (and the semester academic calendar) linked here
- <https://www3.uwsp.edu/regrec/Pages/calendars.aspx>

The CNR Student Success Center (TNR 122) offers professional advisers and peer mentors as an additional resource for students in our college - <https://www3.uwsp.edu/cnr/ssc/>