

## FORESTRY 224 SYLLABUS Fall 2022

**CLASS LOCATION:** Trainer Natural Resource Center (TNR) 170

**TIME:** 7:00 – 9:30 pm, Tuesday and Thursday evenings

**INSTRUCTORS:** Chris Klahn (Lead): 608-297-7599, [chrisklahn1070@gmail.com](mailto:chrisklahn1070@gmail.com) & Fire Crew

**COURSE** Professor: **Dr. Michael Tiller (367 TNR); 715-346-2153; [mtiller@uwsp.edu](mailto:mtiller@uwsp.edu)**

**ADMINISTRATION:** Crew Secretary: **Espen Adams (361A TNR), CNR: 715-346-2897: e-mail – [eadam288@uwsp.edu](mailto:eadam288@uwsp.edu)**

### COURSE STRUCTURE:

The course consists of the following:

- 2 Lectures per week on Tuesday and Thursday evenings beginning Tuesday September 6, 2022 thru Thursday October 20, 2, 2022. Lectures will start at 7pm and end at 9:30pm.
- 3 days of hands-on field training: Friday, October 21<sup>st</sup>, Saturday, October 22<sup>nd</sup>, and Sunday, October 23<sup>rd</sup>.

**Attendance is MANDATORY and attendance will be taken.**

**For this field training, you are required to bring and wear cotton pants/jeans, leather boots, safety glasses & leather gloves. Hard Hats will be provided.**

The course content meets National Wildfire Coordinating Group (NWCG) standards for basic wildland firefighting (Firefighter Type 2 or FFT2). Successful completion of all five modules will qualify you as a wildland firefighter at the basic level and you will be issued a certificate as proof of this. **This certificate is your only proof of having completed this training. Protect this certificate, make backup copies and be ready to supply copies to employers.** Replacement certificates, if available take considerable time and effort to produce. Physical fitness tests are not mandatory for the class but are required to participate as a member of the UWSP Fire Crew or fight fires and conduct prescribed burns with various government agencies.

### CURRICULUM:

This course consists of four training modules; S-190, Introduction to Wildland Fire Behavior; S-130, Firefighter Training; L-180, Human Factors in the Wildland Fire Service; and IS-100 and IS-700, Introduction to the Incident Command System (ICS) and National Incident Management System (NIMS). IS-100 and IS-700 course work and exam are administered online by the Federal Emergency Management Agency (FEMA). **Students will be required to complete the IS-100 and IS-700, self-study module outside of class, online and show a copy of each certificate of completion by October 11<sup>th</sup>, 2022. To find the online IS-100 and I-700 courses, refer to the FEMA online course instructions posted in Canvas.** Students are asked to be flexible in their time commitments to this course so that training materials can be covered in the allocated class periods. **The L-180 module is a 4-hour course and will be presented on Sunday, October 23.**

### GRADING:

There are two facets and standards for grading, that required by NWCG and those required by UWSP. The federal requirement is based on the four NWCG modules, and is pass-fail only with minimum scores listed below. UWSP course grades will be assigned on the typical 90/80/70/60 basis from exam scores. It is possible to fail the class from a UWSP perspective and still meet the minimum NWCG standards. Grades will be determined as follows:

<b>Material Covered</b>	<b>NWCG Minimum Passing Score</b>	<b>UWSP Class Grade Value</b>	<b>Date</b>
IS-100 and IS-700 Proof of Completion	75%	10%	10/11
S-190 Task Book/Exam	70%	30%	9/20
Hands-on Field Day	Mandatory Attendance	30%	10/21 - 10/23
L-180: Human Factors	Mandatory Attendance	N/A	10/23
S-130 Task Book/Exam	70%	30%	11/01

## SCHEDULE & TOPICS COVERED – 2022

<u>DATE</u>	<u>TOPICS</u>
<b>*All classes Scheduled 7 - 9:30 pm</b>	
Tuesday, Sept 6	Course Introduction S-130/S-190/L-180  S-190, <i>Introduction to Wildland Fire</i> Class Introduction  Unit 1 - Basic Concepts of Wildland Fire  Intro to FEMA Training, IS-100c & IS-700b – <i>Intro to Incident Command and National Incident Management Systems</i>
Thursday, Sept 8	Unit 2 – Fuels  Unit 3 – Temperature and Moisture
Tuesday, Sept 13	Unit 4 – Topography  Unit 5 – Atmospheric Stability
Thursday, Sept 15	Unit 6 – Critical Fire Weather  Unit 7 – Alignment  <b>TEST S-190      S-190 Task Book Completion</b>
Tuesday, Sept 20	S-130, <i>Wildland Firefighter</i> Introduction  Unit 1 – Briefings  Unit 2 – Demands of the Position
Thursday, Sept 22	Unit 3 – Personal Protective Equipment  Unit 4 – Resources and Organization  Incident Command System Components
Tuesday, Sept 27	Unit 5 – Risk Management  Unit 6 – Case Study
Thursday, Sept 29	Unit 7 – Suppression  Unit 8 – Tools and Equipment
Tuesday, October 4	NO Class
Thursday, Oct 6	NO Class

**DATE**                      **TOPICS**

**\*All classes Scheduled 7 - 9:30 pm**

Tuesday, Oct 11            Unit 9 – Handline Techniques

Unit 10 – Water Use

**IS – 100c and IS-700b Certificates DUE**

Thursday, Oct 13        Unit 11 – Firing Devices

Unit 12 – Mop-up

Unit 13 – Wildland Urban Interface

Tuesday, Oct 18        Unit 14 – Fire Environment Hazards

Unit 15 – Radio Communications

Thursday, Oct 20        Unit 16- Fire Shelter

Unit 17 – Case Study

**Friday 10/21:            10:00am – 5:30pm: Classroom to be determined.**

10:00 - 11:30    S-130 Review and TEST

*(Instructor: Chris Klahn)*

11:30 - 12:30    **Lunch (ON YOUR OWN)**

**12:30pm            Bus Departs from TNR West Parking Lot E to UWSP Water Lab, 4107 County Road R, Plover**

1:00 – 5:30        Organize & Orient Students to HOTS

*UWSP Crew Mentors/Leaders*

**Hands-on Exercises:** Handtools, firing devices, map reading / navigation, compass orientation, weather kits/orienteering and radio use, pumps and water handling, hose and hose packs, simple and progressive hose lays, nozzles, appliances, single and multi-stage pump orientation and operations, pack cans / bladder bags

**Saturday 10/22        10:45am – 6:00pm**

**10:45am            Bus Departs from TNR West Parking Lot E to UWSP Water Lab, 4107 County Road R, Plover**

Crew Briefings & Introduction to the IAP

*Crew Mentors/Leaders*

*Chris Klahn*

**\*\*OUT TRAINING SESSION (OTS)\*\*:** (*Rotation #1* (50 minutes per station))

1. Portable Pumps & Hoselays
2. Vehicle Mounted Pump Operations
3. Mop-up, Handtools & Backpack Pumps
4. Gridding & Patrol
5. Truck Equipment Safety Orientation
6. Line Construction & Burning out the Line

**LUNCH on site after rotation #1: BRING YOUR OWN**

**DATE**                      **TOPICS**

**Sunday 10/23:                      9:00am – 5:00pm: TNR Room 170 / Room 101 Collins Classroom Center (CCC), UWSP Campus**

09:00 – 10:00	Complete Task Book Sheets and Submit to Instructor	
10:00 – 12:15	L-180: Human Factors on the Fireline	<u><i>Chris Klahn</i></u>
12:15 - 1:15	<b>LUNCH (ON YOUR OWN)</b>	
1:15 – 2:00	L-180: Human Factors on the Fireline	<u><i>Chris Klahn</i></u>
2:00 - 2:15	Orientation to <u>Tactical Sand Tables</u> and <u>Indoor Field Exercises</u>	<u><i>UWSP Fire Crew</i></u>
2:30 - 4:30	<b>**Indoor "Field" Incident**</b>	
	<b>1. Fire Shelter Deployment:</b> West Foyer	<u><i>Fire Crew Officers</i></u>
	<b>2. Tactical Sand Tables: Decision Making:</b> (3) Room (TBD)	<u><i>Fire Crew Officers</i></u>
	<b>3. Situational Field Assessment Exercise:</b> (3) East Foyer	<u><i>Fire Crew Officers</i></u>
	<b>4. Tool Sharpening</b>	<u><i>Fire Crew Officers</i></u>
4:30 - 5:00	Student Evaluation of Task Sheet and Award Certificates	<u><i>Chris Klahn</i></u>