

## FORESTRY 224 SYLLABUS Fall 2023

**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) & UWSP Fire Crew

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

**ADMINISTRATION:** Crew Secretary: **Jon Hakala (361A TNR), CNR: 715-346-2897: e-mail – [jhaka724@uwsp.edu](mailto:jhaka724@uwsp.edu)**

### COURSE STRUCTURE:

The course consists of the following:

- 2 Lectures per week on Tuesday and Thursday evenings beginning Tuesday September 5, 2023 thru Thursday October 19, 2023. Lectures will start at 7pm and end at 9:30pm.
- 3 days of hands-on field training: Friday, October 20, Saturday, October 21 & Sunday, October 22. **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 five 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 on-line 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, on-line and show a copy of each certificate of completion by October 19, 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.

### GRADING:

There are two facets and standards for grading, those required by NWCG and those required by UWSP. The federal requirement is based on the five 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%	10/19
S-190 Task Book/Exam	70%	30%	9/14
Hands-on Field Day	Mandatory Attendance	30%	10/20 - 10/22
L-180: Human Factors	Mandatory Attendance	N/A	10/22
S-130 Task Book/Exam	70%	30%	10/20

## SCHEDULE & TOPICS COVERED – 2023

### DATE                      TOPICS

**\*All classes scheduled 7:00p - 9:30p**

Tuesday, Sept 5	Course Introduction S-130/S-190/L-180  Intro to FEMA Training:  IS-100.C – <i>Intro to the Incident Command System</i>  IS -700.B – <i>Intro to the National Incident Management System</i>  S-190, <i>Introduction to Wildland Fire</i> Class Introduction  Unit 1 - Basic Concepts of Wildland Fire
Thursday, Sept 7	Unit 2 – Fuels  Unit 3 – Temperature and Moisture
Tuesday, Sept 12	Unit 4 – Topography  Unit 5 – Atmospheric Stability
Thursday, Sept 14	Unit 6 – Critical Fire Weather  Unit 7 – Alignment  <b>TEST S-190      S-190 Task Book Due</b>
Tuesday, Sept 19	S-130, <i>Wildland Firefighter</i> Introduction <b>(IS-100/IS-700 DUE)</b>  Unit 1 – Briefings  Unit 2 – Demands of the Position
Thursday, Sept 20	Unit 3 – Personal Protective Equipment  Unit 4 – Resources and Organization  Incident Command System Components
Tuesday, Sept 26	Unit 5 – Risk Management  Unit 6 – Case Study
Thursday, Sept 28	Unit 7 – Suppression  Unit 8 – Tools and Equipment

**DATE**                      **TOPICS**

**\*All classes scheduled 7:00p - 9:30p**

Tuesday, October 3	NO Class
Thursday, Oct 5	NO Class
Tuesday, Oct 10	Unit 9 – Handline Techniques Unit 10 – Water Use
Thursday, Oct 12	Unit 11 – Firing Devices Unit 12 – Mop-up Unit 13 – Wildland Urban Interface
Tuesday, Oct 17	Unit 14 – Fire Environment Hazards Unit 15 – Radio Communications
Thursday, Oct 19	Unit 16- Fire Shelter Unit 17 – Case Study

**Friday 10/20: 10:00a – 6:00p classroom to be determined.**

10:00 - 11:30 **S-130 TEST**    **S-130 Task Book DUE**                      *Instructor: Chris Klahn*

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

**12:55p Meet at Schmeeckle Reserve Visitor Center, 2419 North Point Dr., Stevens Point**

13:00 – 17:30 Organize & Orient Students to HOTS                      *UWSP Crew Mentors/Leaders*

**Hands-on Exercises:** Hand Tools, Firing Devices, Map reading / Navigation Compass Orientation Weather kits/Orienteering & Radio Use, Pumps & Water Handling, Hose & Hose Packs, Simple & Progressive Hose Lays, Nozzles, Appliances, Single & Multi-stage Pump Orientation & Operations, Pack Cans / Bladder Bags

**Saturday 10/21 10:00a – 6:00p**

**10:00a Meet at Schmeeckle Reserve Visitor Center, 2419 North Point Dr., Stevens Point**

*\* Depending on weather, we may move to the WDNR Water Lab, 4107 County Road R, Plover*

**9:00a Depart TNR West Parking Lot to WDNR Water Lab (TBD!)**

Crew Briefings & Introduction to the IAP                      *Crew Mentors/Leaders*

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

1. Portable Pumps & Hose Lays
2. Vehicle Mounted Pump Operations
3. Mop-up, Hand Tools & 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, 10/22**            **10:00a – 6:00p**

**Classroom TBD: UWSP Campus, Stevens Point**

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