

FIRE SCIENCE (WILDLAND) (FRP)

FRP-101 Basic Forest Management

3 credits, Fall

An introduction to forestry and forest land management activities and practices related to forest stewardship. Students will gain an understanding of how social, economic and environmental values influence current forest policies and regulations.

Corequisites: FRP-102

FRP-102 Basic Forest Management Lab

1 credits, Fall

Provides lab exercises in a forest setting experience using forest management field equipment discussed in FRP-101. The Lab includes the use of diameter tape, loggers tape, compass, clinometer, increment borer and wedge prism to measure tree height, diameter, tree age, diameter increment and basal area. Through the use of fixed plot and variable plot forest sampling methods the students will gain the skills to gather data necessary to calculate stocking, volume and growth.

Corequisites: FRP-101

FRP-110 Basic Wildland Fire Investigation (FI-110)

1 credits, Winter

An introduction to the roles and responsibilities of wildland firefighters in determining a wildland fire origin. Students will identify the wildland fire categories, wildland fire behavior and the initial observations made by the firefighter responding to and arriving at a wildland fire. The primary emphasis of this course is to teach sound wildland fire observations and origin scene protection practices that enable first responders to a wildland fire scene to perform proper origin scene protection procedures.

Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-130 Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)

3 credits, Fall/Winter

This course provides an introduction to wildland fire behavior, wildland firefighting safety and wildland firefighting techniques. The course covers the basic skills necessary to fight wildland fires under close supervision. NWCG Courses completed in class include S-130, S-190, S-110, L-180, IS-100 and IS-700. This course also includes the Work Capacity Test (WCT) which is needed for employment. Completion of firefighter field day is required to pass this course.

FRP-131 Advanced Firefighter Training (S-131/S-133)

1 credits, Spring

This course provides instruction that meets the training requirements for the Wildland Firefighter Type 1 position and/or Incident Commander Type 5 (ICT5).

Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-200 Basic Incident Command System (I-100, I-200, IS-700, IS-800)

4 credits, Spring

Introduces the knowledge and skills to function efficiently during an incident or event within the Incident Command System (ICS). National Incident Management System (NIMS) and the National Response Framework (NRF) provide a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents.

FRP-201 Advanced Forest Management

3 credits, Spring

Discuss and explore forest management concepts and principles through classroom lecture and field trips. Contrast forest management decisions made dependent on public or private landowner objections, economics and federal and state laws that provide for protection of soil, water, air, fish, and wildlife and consideration of recreation values.

Prerequisites: FRP-101 and FRP-102

FRP-205 Forest Management Assessments and Inventories

3 credits, Not Offered Every Term

Provides forest technicians, wildland firefighters and other natural resource employees the ability to conduct various forest management and recreation management assessments and inventories. The students will gain the ability to gather data for making forest management and fire management decisions.

Prerequisites: FRP-101 and FRP-102

Recommended Prerequisites: FRP-201

FRP-211 Portable Pumps and Water Use (S-211)

2 credits, Spring

This course is designed to provide knowledge and skills to design, setup, operate, troubleshoot, and shut down portable water delivery systems. The focus is on portable pumps; it does not address water delivery for engines. There is also a field exercise where students will apply what they learned in the classroom.

Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-212 Wildfire Power Saws (S-212)

3 credits, Spring

The course lessons provide introduction to the function, maintenance, and use of internal combustion engine-powered chainsaws, and their tactical wildland fire application. Field exercises support entry-level training for firefighters with little or no previous experience in operating a chainsaw, providing hands-on cutting experience in surroundings similar to fireline situations. Required: Student Petition.

Required: Students must be at least 18 years of age.

Must have current first aid, CPR and AED certification

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-250

FRP-215 Fire Operations in the Urban Interface (S-215)

2 credits, Not Offered Every Term

Assess homes and structures located in and around forest, grass and brush lands (urban interface) for vulnerability to a wildland fire.

Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-220 Initial Attack Incident Commander (S-200)

1 credits, Not Offered Every Term

The course provides the students with the basic skills to lead the initial attack resources on small non-complex wildland fires. Provides the students with the knowledge to prepare for the assignment, assess the fire, determine resources needs and complete the necessary administrative functions required of an Initial Attack Incident Commander Type 4.

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-230 (S-230), FRP-290 (S-290)

FRP-230 Crew Boss (Single Resource) (S-230)

1 credits, Not Offered Every Term

The course provides the student with the basic knowledge required of a crew leader (Crew Boss) of a wildland firefighting crew for a Federal, State or Contract Agency fire organization.

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-131 (S-131/S-133), FRP-290 (S-290)

FRP-231 Engine Boss (Single Resource) (S-231)

1 credits, Not Offered Every Term

The course provides the student with the required initial training to perform as a wildland fire engine supervisor (Engine Boss) for a Federal, State or Contact Fire organization.

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-131 (S-131/S-133), FRP-290 (S-290)

Corequisites: FRP-230 (S-230)

FRP-236 Heavy Equipment Boss (S-236)

2 credits, Not Offered Every Term

This course provides the student the knowledge and skills needed to maintain an effective heavy equipment operation with considerations for tactical use and safety precautions. The course includes a field exercise to reinforce what is discussed in the classroom.

Prerequisites: FRP-131 (S-131/S-133)

FRP-243 Wilderness I: Psychology of Survival

3 credits, Not Offered Every Term

Students will learn how to be mentally and physically prepared to survive in the wilderness, the psychology of surviving, and what to do when things go wrong. The course explores the science of survival. Other topics include disaster preparedness, ropes and knots, heat related injuries and increasing situation awareness.

FRP-244 Wilderness II: Basic Land Navigation (S-244)

3 credits, Winter

Students will learn how to make and document field observations, how to produce hand drawn and GPS field maps, and how to navigate using a map, compass, and GPS.

Prerequisites: FRP-130 (S-130/S-190/L-180)

Recommended Prerequisites: FRP-290 (S-290)

FRP-245 Wilderness III: Weather of the Northwest

2 credits, Fall

This course covers the basics of weather forecasting, especially as it relates to the weather of the Northwest.

FRP-246 Wilderness IV: Backcountry CPR/First Aid/AED

4 credits, Winter

Introduction to general medical concepts and basic life support skills. It is targeted to the outdoor enthusiast on day trips or short adventures. Course results in CPR, first aid & AED certification and Wilderness First Aid certification.

FRP-248 Wilderness V: Introduction to Search and Rescue

2 credits, Not Offered Every Term

This course introduces students to the philosophy, tactics, and operations of search and rescue techniques and strategies. It will also address how people behave and respond when they become lost.

FRP-249 Followership to Leadership (L-280)

2 credits, Spring

The course prepares the student for a basic field operations leadership role. Students will be able demonstrate basic leadership skills through interactive classroom discussions and scenario based exercises.

FRP-250 Wilderness VI: Basic Tool Use and Care

1 credits, Winter

Selection, operation, and maintenance of chain saws and hand tools to include shovels, Pulaski, single and double bit axes, hand saws, and various other tools used in forestry, firefighting and survival activities. Class includes a lab component.

FRP-255 Physical Fitness and Nutrition for First Responders

2 credits, Fall/Winter/Spring

This course will assist the student in meeting the physical fitness requirements for work in firefighting, and emergency medical services. Includes individual conditioning strategies, nutritional guidelines, basic exercise principles, pre-employment and lifelong fitness and conditioning. The course will prepare students for activities like the Candidate Physical Abilities Test (CPAT), work capacity test and other physical ability tests required for first responders. May be repeated for up to 6 credits.

Required: Complete a physical performed by a licensed physician prior to attending

Recommended: Have adequate outdoor exercise attire and be prepared for arduous physical activity

FRP-265 Wildland Fire Prevention Education 1 (P-101)

3 credits, Winter

This course was developed as part of a multi-course national curriculum covering wildfire prevention. It is designed to provide a basic introduction of fire prevention principles and activities for fire prevention specialists, fire managers, public information officers and others who have wildland fire prevention, education, or mitigation responsibilities. Course equivalent to NWCG P-101 Fire Prevention Education 1.

Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-270 Basic Air Operations (S-270)

1 credits, Spring

The course introduces students to basic air operations including the different types of aircraft used in wildland firefighting operations along with mission planning, risk management, safety, and communications.

FRP-275 Wildland Fire Management 1

4 credits, Fall

This course is designed to meet the needs of current and future unit level Fire Program Managers. Students will learn how to identify the basic principle, policies, and procedures to effectively and safely lead, plan, and implement a fire management program. The responsibilities of the Fire Program manager include program management and personal accountability are also covered in this course.

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-131 (S-131/S-133), FRP-249 (L-280), and WR-101 or WR-121Z

FRP-280 Wildland Fire/CWE

3 credits, Not Offered Every Term

Cooperative work experience. Provides students with on-the-job experience in the field of wildland firefighting. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

FRP-282 Prescribed Fire Implementation (RX-301)

2 credits, Not Offered Every Year

This course is designed to introduce students to the tools and techniques used to perform in the role of a Prescribed Fire Burn Boss. The course material is based on the tasks found in the position task book for Prescribed Fire Burn Boss. It leads the student through the duties and responsibilities associated with the position of the Prescribed Fire Burn Boss including evaluation and implementation of a prescribed fire plan. Required: Student Petition.

FRP-284 Introduction to Fire Effects (RX-310)

3 credits, Not Offered Every Year

This course is designed to provide students with the knowledge and skills necessary to recognize and communicate the relationships between basic fire regimes and fire effects, the effects of fire treatments on fire effects, and to manipulate fire treatments to achieve desired fire effects. Required: Student Petition.

FRP-285 Wildland Fire Facilitative Instructor (M-410)

4 credits, Not Offered Every Term

This course helps students become effective facilitative instructors. This course improves training delivery and quality by presenting instructional methods with an emphasis on student-oriented adult training techniques. This course is designed for students to meet National Wildfire Coordinating Group (NWCG) instructor requirements. Prerequisites: FRP-130 (S-130/S-190/L-180), and WR-101 or WR-121Z

FRP-286 Prescribed Fire Plan Preparation (RX-341)

3 credits, Not Offered Every Year

The purpose of this class is to provide students with the skills/knowledge to prepare a prescribed fire plan for technical review and approval in accordance with the Interagency Prescribed Fire Planning and Implementation Procedures Guide, National Wildfire Coordinating Group (NWCG) Publication 484. Required: Student Petition.

FRP-288 Smoke Management Techniques (RX-410)

3 credits, Not Offered Every Year

This course leads students through the ecological and historical role of fire, characteristics of smoke and the health, safety and visibility impacts of smoke. Other topics include public relations, legal requirements, meteorology, fuel consumption, smoke production dispersion modeling, and operational smoke management strategies. This course is designed to be interactive in nature. It contains a panel discussion, several exercises designed to facilitate group and class participation and case studies from a variety of fuel types and political challenges. Required: Student Petition.

FRP-290 Intermediate Wildland Fire Behavior (S-290)

3 credits, Spring

This course provides the student with the basic skills to determine the characteristics of fuels(vegetation) when involved in a wildland fire, the effects weather has on a wildland fire, the various topographic features that impact wildland fire and the fire behavior patterns of a wildland fire. Prerequisites: FRP-130 (S-130/S-190/L-180)

FRP-291 Fire Academy I

3 credits, Not Offered Every Year

This course provides an introduction to fire incident related experience that fulfills the requirements of OR-OSHA and the Department of Public Safety Standards and Training for Entry-Level Firefighter.

FRP-292 Fire Academy II

3 credits, Not Offered Every Year

This course develops fire incident related experience that fulfills the requirements of OR-OSHA and the Department of Public Safety Standards and Training for Entry-Level Firefighter. Covers tools, procedures, techniques and safety precautions utilized by firefighters during fire ground operations. Includes comprehensive training in firefighting skills related to fire company evolutions. Involves transfer of knowledge obtained from classroom instruction to drill ground application during hands-on live fire training.

Prerequisites: FRP-291

FRP-294 Intermediate Incident Command System (I-300)

2 credits, Not Offered Every Term

This course focuses on ICS for supervisors in expanding incidents. ICS 300 outlines how the NIMS Command and Coordination component supports the management of expanding incidents as well as describes the incident management processes as prescribed by ICS. This course has a threaded activity that will give students the opportunity to practice implementing the incident management process and create an Incident Action Plan (IAP) for a simulated expanding incident.

Prerequisites: FRP-200 (I-100, I-200, IS-700, IS-800)

FRP-295 Advanced Incident Command System (I-400)

2 credits, Not Offered Every Term

This course provides the student with the advanced level instruction and application of the functional positions and organizations found within the Incident Command System(ICS). Through exercises, the students will apply the functional titles and positions within ICS in order to identify and address incident or events needs and define the inter-agency coordination required to effectively manage large scale incidents or events.

Prerequisites: FRP-294 (I-300)

FRP-296 Introduction to Wildland Fire Behavior Calculations (S-390)

4 credits, Not Offered Every Term

This course introduces the students to the fire behavior calculations used to estimate wildland fire behavior and fire spread. Students will apply the calculations using graphs and scales based on modeling to determine the characteristics of fuels, the weather and topography that influences fire behavior and document these calculations using the manual methods.

Prerequisites: FRP-290 (S-290)