

FT R180: WILDLAND FIRE ACADEMY

Originator

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Name(s)

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College

Oxnard College

Discipline (CB01A)

FT - Fire Technology

Course Number (CB01B)

R180

Course Title (CB02)

Wildland Fire Academy

Banner/Short Title

Wildland Fire Academy

Credit Type

Credit

Start Term

Summer 2020

Catalog Course Description

This course provides the entry level student with the fire behavior knowledge and firefighting skills relevant to basic incident command, wildland firefighting positions, basic crew configurations, firefighter safety in wildland environments, tool, equipment and fundamental water handling, and wildland suppression strategy and tactics. Portable pumps and chainsaws are studied at length, as well as basic tools for land navigation. Leadership values and principles, transition challenges for new leaders, situational leadership, team building and ethical decision making is integrated throughout the course. Students are expected to obtain all required uniforms and safety equipment. State certification costs are the responsibility of the student. Medical clearance is required. PREQS: FT R151 and EMT R109.

Taxonomy of Programs (TOP) Code (CB03)

2133.00 - *Fire Technology

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

B (Transferable to CSU only)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will be required

Faculty notes on field trips; include possible destinations or other pertinent information

Local hillsides

Grading method

Letter Graded

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

87.5

Maximum Contact/In-Class Lecture Hours

87.5

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

131.25

Maximum Contact/In-Class Laboratory Hours

131.25

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

218.75

Total Maximum Contact/In-Class Hours

218.75

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

175

Maximum Outside-of-Class Hours

175

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

393.75

Total Maximum Student Learning Hours

393.75

Minimum Units (CB07)

7.5

Maximum Units (CB06)

7.5

Prerequisites

FT R151, EMT R109

Limitations on Enrollment

No acrylic or long nails in clinical settings

Physical examination demonstrating general good health

Entrance Skills

Entrance Skills

Students will demonstrated the basic knowledge delivered in Fire Protection Organizations.

Prerequisite Course Objectives

FT R151-Analyze the basic components of fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread and fire behavior.

FT R151-Identify the effects of fire on the environment and the historical reactions made to protect society.

FT R151-Recognize the major organizations that contribute to fire protection.

FT R151-Define and describe the purpose and scope of fire departments.

FT R151-Explain the types of common fire department fire fighting apparatus, equipment, and personal safety equipment used for fire fighting.

FT R151-Illustrate the various types of public and private fire protection equipment and systems.

Entrance Skills

Emergency Medical Responder Skills or equivalent

Prerequisite Course Objectives

EMT R109-Define medical oversight and discuss the first responder's role in the process.

EMT R109-Explain the need to determine scene safety.

EMT R109-Discuss the importance of body substance isolation.

EMT R109-Describe the steps the first responder should take for personal protection.

EMT R109- Discuss the medical, legal and ethical issues in patient care.

EMT R109-Define consent and the methods of obtaining consent.
 EMT R109- Explain the importance and legality of patient confidentiality.
 EMT R109- Discuss issues of abandonment, negligence and battery and their implications to the first responder.
 EMT R109- Describe the anatomy and functions of the body systems.
 EMT R109-Define body mechanics when lifting moving a patient.
 EMT R109-Describe the indications of moving emergency and non-emergency patients.
 EMT R109-Discuss the components of scene size-up.
 EMT R109- Discuss methods of obtaining a primary and secondary patient assessment.
 EMT R109-Discuss the components of the on-going assessment.
 EMT R109- Define the components of pulmonary resuscitation and airway emergencies.
 EMT R109-Explain the steps in providing emergency medical care to a patient with general medical complaint.
 EMT R109- Explain the steps in providing care to a patient with a behavior or psychological crisis.
 EMT R109-State the emergency medical care for internal and external bleeding.
 EMT R109- Describe the emergency medical care of the patient with a soft tissue injury.
 EMT R109-Describe the emergency medical care of burns.
 EMT R109- Describe the function of the musculoskeletal system.
 EMT R109- Describe the emergency medical care for injuries to the extremities, head and spine.
 EMT R109-List various methods of gaining access to the patient.
 EMT R109- Describe the criteria for a multiple-casualty situation.
 EMT R109- Summarize the components of basic triage.

Requisite Justification

Requisite Type

Prerequisite

Requisite

EMT R109

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

FTR 151

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:	
1	Compare environmental factors of fuels, weather, and topography that affect the start and spread of wildland fires.
2	Describe contributing factors that indicate the potential for increased fire behavior that may compromise safety.
3	Explain what LCES (Lookouts, Communications, Escape Routes, and Safety Zones) system is and how it relates to the Standard Firefighting Orders.
4	Construct fireline to required standards using various methods.
5	Extinguish the fire with or without the use of water.
6	Demonstrate competency and skills to design, set up, operate, troubleshoot and shut down portable water delivery systems.
7	Explain basic chain saw operation, troubleshooting, maintenance and unit safety features.

8	Demonstrate the tactical application of chain saws in fireline construction and mop up operations.
9	Describe how to operate safely and effectively in a wildland urban interface incident using situation awareness, performing structure triage and citing appropriate structure protection actions.
10	Demonstrate how to interpret a topographical map to determine slope, aspect, acreage, distance and coordinates.
11	Address human performance issues and develop strategies for enhancing future performances.
12	Identify the fundamental leadership principles.

Course Objectives

Upon satisfactory completion of the course, students will be able to:	
1	Explain the affects temperature, relative humidity, winds and precipitation have on wild fire behavior.
2	List the basic characteristics of topography and describe how they affect wildland fire behavior.
3	Identify the fuel types and characteristics that influence the behavior of wildland fires.
4	Compare the differences of stable and unstable atmospheres related to wild fires.
5	Link fire weather forecasts to anticipated fire behavior.
6	List fire environmental factors to consider when monitoring fire behavior.
7	Describe combined influences that cause extreme fire behavior and safety concerns.
8	Describe and define wildland firefighting terminology.
9	Explain the importance of proper use, maintenance and accountability of issued personal protective equipment (PPE).
10	Create a list of personal gear needed for extended wildland fire operations.
11	Describe the benefits of fitness, health, nutrition and adequate hydration.
12	Define an incident and describe how the incident management structure is organized.
13	List the function and responsibilities of each section of the Incident Command System.
14	Name different types of crew organizations used to suppress wild fires.
15	List and explain the importance of the 18 Watchout Situations and the 10 Standard Firefighting Orders.
16	Illustrate how Lookouts, Communications, Safety Zones and Escape Zones relate to the Standard Firefighting Orders.
17	Point out the limitations of utilizing the Incident Response Pocket Guide safety zone guidelines.
18	Explain the inspection and care, function and deployment options for a fire shelter.
19	Demonstrate the correct deployment procedures for a fire shelter in 25 seconds or less.
20	Develop safety procedures when traveling by vehicle, boat, helicopter, fixed-wing aircraft and foot.
21	Demonstrate the proper inspection, maintenance and operation of wildland hand tools and firing devices used for fire suppression.
22	Describe hazards to the operators when using a drip torch.
23	Deploy hose lays utilizing all appliances, fitting and nozzles.
24	Perform as a team member to construct fireline with the use of hand tools.
25	List wildland suppression techniques and explain how each is implemented.
26	Give examples of control line types and discuss the hazards when existing control lines are threatened.
27	Describe safety procedures during retardant/water drops
28	Identify the hazards of working in close proximity to fireline dozers.
29	Illustrate systematic methods of patrolling and locating spot fires.
30	Differentiate between command and tactical radio frequencies
31	Transmit a clear and concise message using a handie talkie radio.
32	Describe systematic methods for mopping up a wild fire
33	Explain and demonstrate how to use hand tools to extinguish burning materials.
34	Define the ultimate goal of a water delivery system
35	List two reasons why portable water delivery systems are important for wildland firefighting and prescribed burning.
36	Identify key factors to consider when designing, setting up and operating a portable water delivery system.
37	Distinguish between two and four cycle engines and identify which is most important to a pump operator.
38	Label the parts of a commonly used portable pump.
39	Identify the purpose of suction or discharge hoses.

40	Explain the function and purpose of wildland fire appliances and nozzles.
41	Demonstrate how to prevent the pump motor from flooding during starting procedures.
42	List general guidelines for maintaining and retrieving hose.
43	Identify the importance of having a basic understanding of system hydraulics.
44	Determine flow and pump discharge pressure through appropriate system pumps
45	Draw a schematic of a water delivery system design, and explain its function.
46	Determine whether parallel or series pumping would be the best option.
47	Cite the sources of information for chain saw regulations and standards.
48	Compile a Job Hazard Analysis/Risk Assessment containing all elements related to chain saw operations.
49	Describe personal protective equipment required for chain saw operations.
50	Identify the safety components of the Situational Awareness and Individual Complexity List.
51	Identify basic chain saw parts, adjustments, troubleshooting, maintenance and chain saw safety features.
52	Demonstrate chain saw maintenance techniques.
53	Demonstrate chain saw transporting and starting procedures.
54	Demonstrate the use of tools and supplies that support chain saw operations.
55	List the duties and responsibilities of the chain saw operator and the swamper.
56	Explain the tactical application of chain saws in fireline construction and mop up operations.
57	Compare methods of saw team deployment used in fireline tactics.
58	Discuss methods of mop up and fireline rehabilitation.
59	Show proper chain saw handling techniques
60	Describe the proper procedure and hazard assessment for bucking to include the types of binds and bucking methods.
61	Explain the proper procedures and hazard assessments for limbing, brushing and slashing.
62	Demonstrate competence in safely handling bucking, limbing and brushing and slashing in the least complex situations.
63	Demonstrate safe cutter and swamper interaction
64	Identify the elements of the tree felling process
65	Describe felling techniques and list the steps for felling a tree.
66	Explain the methods used to mitigate leaner and tree hangups.
67	Show how to analyze a stump to include all elements of the evaluation
68	Describe operating principles and unique safety concerns to firefighters in the interface.
69	Describe escape routes, temporary refuge areas and safety zones as they apply to firefighting in the interface.
70	Discuss how preparing for and responding to interface fires is a shared responsibility as outlined in the Federal Wildland Fire Policy.
71	Compare human factors encountered in the interface as they relate to decision making for firefighter and public safety.
72	Explain the value of the Incident Command System and mutual aid as they apply to an interface incident.
73	Name the resources used for pre-incident planning.
74	Categorize the items to consider when sizing up an interface fire.
75	List the items to consider when developing an initial strategy for suppression operations
76	Cite the structure triage categories.
77	Explain the factors upon which to base structure triage decisions and give an example of each.
78	Identify the conditions which may indicate a structure cannot be saved.
79	List the seven structure protection tactical actions.
80	List three examples of how to reference a map during an incident.
81	Describe key points when using a map with a compass or GPS receiver.
82	Given a specific scenario, indicate the most appropriate type of map to be used.
83	List the reference coordinates for latitude/longitude and UTM.
84	Explain how latitude/longitude is measured on a map.
85	Determine acreage of area using a map.

86	Demonstrate storing and naming waypoints and tracks using a GPS receiver.
87	List 3 ways to prevent making user mistakes while using a GPS receiver.
88	Describe the guidelines for naming waypoints.
89	Using a given map, identify plot the specified latitude/longitude.
90	Name 4 standards to be incorporated into preparing field maps.
91	Identify pertinent information for field notes
92	Agree that firefighters have a responsibility to learn and improve their performance.
93	Describe the relationship between situational awareness and reality and perception.
94	Describe the role of a leader and the motivation for wanting to lead.
95	Identify leadership values and their supporting principles
96	Create a leadership self-development plan
97	Name common leadership pitfalls and develop strategies to avoid them.
98	List basic leadership styles and appropriate situations for their use
99	Describe techniques leaders can use to build and maintain team cohesion

Course Content

Lecture/Course Content

1. Wildland Fire Behavior
 - a. Basic Concepts of Wildland Fire
 - Principles of Wildland Fire Behavior
 - Wildland Fire Behavior and Safety
2. Basic Wildland Firefighting
 - a. Firefighter Preparedness
 - b. Incident Command System
 - c. Resource Types
 - d. Risk Management
 - e. Transportation Safety
 - f. Hand Tools
 - g. Firing Devices
 - h. Use of Water
 - i. Suppression
 - j. Patrolling and Communications
 - k. Mop Up and Securing the Fireline
3. Portable Pumps and Water Delivery
 - a. Portable Water Delivery Systems
 - b. Equipment
 - c. Operational Responsibilities
 - d. System Design and Hydraulics
4. Chainsaw Operations during Wildland Incidents
 - a. Chainsaw Safety Requirements
 - b. Chainsaw Parts, Maintenance and Operation
 - c. Fireline Construction and Mop Up
 - d. Chainsaw Tasks and Techniques
5. Wildland Urban Interface
 - a. Firefighter Safety in the Interface
 - b. Managing Human Factors in the Interface
 - c. Pre-Incident Planning Size up and Initial Strategy
 - d. StructureTriage Structure Protection Overview
 - e. Tactics in the Interface
 - f. Tactical Operations and Resource Use in the Interface
 - g. Action Assessment, Plan Update and After Action Review
6. Basic Land Navigation
 - a. Overview of Maps
 - b. Reading Topographic Maps and Making Calculations
 - c. Geographic Location Systems

- d. Using a Compass and Clinometer
- e. Global Positioning Systems
- f. Navigating and Field Mapping
- 7. Human Factors in the Wildland Fire Service
 - a. Working in the Wildland Fire Service
 - b. Communication
 - c. Barriers to Situation Awareness
 - d. Decision Making
 - e. Team Cohesion
- 8. Followership to Leadership
 - a. The Art of Leadership
 - b. Foundations of Leadership
 - c. The Follower to Leadership Transition
 - d. Situational Leadership
 - e. Team Cohesion
 - f. Ethical Decisions
 - g. Leadership in Action – The After Action Review
 - h. Putting It in Practice

Laboratory or Activity Content

- 1. Wildland Response
 - a. Assemble and prepare for response
- 2. Wildland Personal Protective Equipment
 - a. Don and doff wildland personal protective equipment
 - b. Deploy fire shelter lying down method
 - c. Deploy fire shelter-standing to sitting method
 - d. Deploy fire shelter-standing drop down method
 - e. Inspect and maintain wildland personal protective equipment
 - f. Assemble, attach, and maintain a head lamp
- 3. Wildland Tools and Equipment
 - a. Assemble and use a back pump
 - b. Inspect, use, maintain and sharpen a brush hook
 - c. Inspect, use, maintain and sharpen a shovel
 - d. Inspect, use, maintain and sharpen an axe
 - e. Inspect, use, maintain and sharpen a Pulaski
 - f. Inspect, use, maintain and sharpen a McLeod
 - g. Inspect, use, maintain and sharpen a rhino tool
 - h. Inspect, use, maintain and sharpen a combi tool
 - i. Inspect, use, maintain and sharpen a wire broom
- 4. Wildland Safety
 - a. Assume the safe position for an airtanker drop
 - b. Use the Incident Response Pocket Guide (IRPG)
 - c. Use fireline flagging
- 5. Human Factors on the Fireline
 - a. Demonstrate basic verbal communications
- 6. Wildland Suppression
 - a. Use handtools to construct a fireline
 - b. Perform mobile pumping
 - c. Carry and pass handtools
 - d. Build a control line using the bump up or one lick method
 - e. Build a cup or trench while constructing a fireline
 - f. Retrieve a fire hose using single section drain and carry
 - g. Retrieve a fire hose using a figure 8 drain and carry
 - h. Perform a progressive hose lay
 - i. Demonstrate fire stream practices, water use and agent application
 - j. Perform a simple hose lay single person 300'
- 7. Reinforcing a Fireline

- a. Ignite and extinguish road flares and fuses
- b. Assemble and use a drip torch
- c. Demonstrate follow-up procedures for wet line, retardant line or treated area
- 8. Wildland Urban Interface
 - a. Prep and defend a structure in the wildland urban interface
- 9. Mop Up Operations
 - a. Use basic tools
 - b. Perform wet mop up
 - c. Perform dry mop up
- 10. Conduct Patrols
 - a. Demonstrate patrol principles, techniques and standards
- 11. Portable Pumps and Water Use
 - a. Participate in portable water delivery system set up, operation, troubleshooting and shut down.
 - b. Demonstrate appropriate risk management of wearing PPE and fuel handling techniques.
- 12. Wildland Fire Chainsaws
 - a. Students will practice on hillsides with steep slopes, the entire downhill side will be included in the protected work area.
 - b. Demonstrate approved chain saw starting methods.
 - c. Demonstrate the ability to analyze and mitigate overhead and ground hazards associated with limbing, bucking, and brushing and slashing.
 - d. Given a standing tree with low lying limbs in a closed stand of timber, the student will properly size up and clear the work area and limb the tree to the height of their head.
 - e. Given a brush field, the student will properly size up, clear the work area and cut and remove a strip of brush to near ground level 6' wide by 20' long.
 - f. Given a downed tree on a slope up to 30%, the student will properly size up, clear the work area and buck and the tree into lengths suitable for hand removal.
 - g. For the above Sawyer actions, students will demonstrate Safe Cutter and Swamper Interaction.
 - i. The primary Swamper will concentrate on clearing cut material away from the Sawyer's path.
 - ii. A pre-established communication procedure will be set to include verbal and non-verbal tactics.
 - h. Demonstrate making accurate tree felling undercuts on High stump or Stand-up stump props
 - i. Demonstrate the ability to determine and prepare a safe felling area and maintain cutting area control
 - j. Demonstrate the ability to correctly identify and mitigate overhead and ground hazards associated with tree felling
 - k. Given a sound tree or snag prop, up to 20" in diameter at breast height in a closed stand of timber on slopes less than 30%, the student will correctly size up the tree, prepare the intended lay and escape routes and fell the tree within 15' of the center of the intended lay measured at the top of the tree.
 - l. Demonstrate the ability to complete a stump analysis of the student's evaluation tree.

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises
Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Group projects
Individual projects
Objective exams
Performances
Projects
Problem-Solving Assignments
Quizzes
Role playing
Skills demonstrations
Skill tests

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
Computer-aided presentations
Collaborative group work
Class activities

Class discussions
Case studies
Demonstrations
Field trips
Group discussions
Guest speakers
Instructor-guided interpretation and analysis
Laboratory activities
Lecture
Role-playing
Small group activities

Describe specific examples of the methods the instructor will use:

1. Textbook assignments
2. Reading assignments in journals, and green sheets(fire line of duty deaths)
3. Reading assignments in supplementary books and equipment operations manuals
4. Construction of wildland fire vocabulary lists
5. Terminology drills 11.Recital of standard orders and watchout situations
6. Documenting assignments on a ICS form 214
7. Oral reports on published research of fatal wildland fire case studies
8. Topographic map interpretation
9. Use of pretests
10. Wildland fire simulations
11. Field trips
12. Role playing in simulated wildland fire scenarios
13. Record appropriate fire field notes
14. Class projects to prepare tools for fire incidents
15. Individual projects to construct wildland packs
16. Perform fireline tasks as members of a company working together on a simulated 5 acre wild fire
17. Student construction of diagrams for extended and multi-branch incident command of wild fires
18. Use of chalkboard by instructor as aid in teaching
19. Instructor use of sand tables to simulate wildland urban interface operations
20. Use of Powerpoint slides
21. Use of You tube videos
22. Google Earth and Maps exercises
23. Demonstration of GPS receivers
24. Use of radio transmission recordings during case study of intense wild fire situations
25. Service projects during logging exercises
26. Use of community or local resources
27. Tutorial: students assigned to other students for assistance, peer teaching
28. Coaching: special assistance provided for students having difficulty in the course
29. Workbook completion
30. Visit an employment agency
31. Brainstorming sessions in small groups to determine appropriate wild fire suppression tactics for a given wildland urban interface area

Representative Course Assignments

Writing Assignments

1. Wildland fire incident green sheets - Formal investigations and resulting conclusions on wildland fires involving line of duty deaths.
2. Writing assignments explaining the student's opinion of how human factors influenced crew member actions on given wildland fires involving line of duty deaths.

Critical Thinking Assignments

Scenario based simulations and role playing exercises.

Reading Assignments

1. Wildland fire incident green sheets - Formal investigations and resulting conclusions on wildland fires involving line of duty deaths.

Skills Demonstrations

In addition to mandatory manipulative testing of basic wildland firefighting skills, student will be required to perform a qualified work capacity test consisting of hiking 3 miles while carrying a 45 pound back pack. The hike must be completed within 45 minutes.

Other assignments (if applicable)

1. Day hikes to improve physical fitness and stamina on the hillsides.

Outside Assignments

Representative Outside Assignments

1. Wildland fire incident green sheets - Formal investigations and resulting conclusions on wildland fires involving line of duty deaths.
2. Writing assignments explaining the student's opinion of how human factors influenced crew member actions on given wildland fires involving line of duty deaths.
3. Day hikes to improve physical fitness and stamina on the hillsides.
4. Case study of recent brush fire incidents.

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type

Textbook

Description

Department of Transportation (2016). *Emergency Response Guide, ERG* (2016). Department of Transportation.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2013). *Fire Operations in the Wildland Urban Interface* (S-215). National Fire Equipment Systems.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2013). *Water Handling Equipment Guide* (PMS447-1 6th). National Fire Equipment Systems.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2012). *Wildland Fire Chain Saws* (S-212). National Fire Equipment Systems.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2012). *Portable Pumps and Water* (S-211). National Fire Equipment Systems.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2007). *Intermediate Wildland Fire Behavior* (S-290). National Fire Equipment Systems.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2004). *Firefighter Type I Training* (S-131). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2003). *Basic Wildland Firefighter Training* (S-130). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2009). *Fitness and Work Capacity* (PMS304-2). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2008). *Followership to Leadership* (L-280). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2008). *Human Factors in the Wildland Fire Service* (L-180). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2016). *Incident Response Pocket Guide, IRPG* (PMS461). National Fire Equipment System.

Resource Type

Textbook

Description

National Wildland Coordinating Group, NWCG (2016). *Basic Land Navigation* (PMS475). National Fire Fighting System.

Resource Type

Other Instructional Materials

Description

Owner/Operator Manuals for: 1. Wick water pump 100-4H Honda, Mercedes Textiles 2. Wick water pump 80-4H, Honda, Mercedes Textiles 3. STIHL Rescue Chainsaw 460.

Library Resources**Sufficient Library Resources exist**

Yes

Primary Minimum Qualification

FIRE TECHNOLOGY

Additional Minimum Qualifications**Minimum Qualifications**

Emergency Medical Technologies

Additional local certifications required

S-130: Fire Fighter Training S-131: Advanced Fire Fighter Training S-190: Introduction To Wildland Fire Behavior S-200: Initial Attack Incident Commander Type 4 S-212: Wildland Fire Chain Saws S-215: Fire Operations In The Wildland/Urban Interface S-230: Crew Boss - Single Resource S-231: Engine Boss - Single Resource S-219: Ignition Operations Operations S-290: Intermediate Wildland Fire Behavior.

Candidate needs to have successfully completed an EMT course.

Review and Approval Dates**Department Chair**

09/06/2019

Dean

09/06/2019

Technical Review

9/25/2019

Curriculum Committee

9/25/2019

DTRW-I

MM/DD/YYYY

Curriculum Committee

10/9/2019

Board

MM/DD/YYYY

CCCCO

MM/DD/YYYY

Control Number

CCC000588020

DOE/accreditation approval date

MM/DD/YYYY