

EDITION: January 2008
NFPA Standard 1001 - 2008 Edition

**** FIRE FIGHTER II ****

CERTIFICATION TEST

DOCUMENTATION BOOKLET

MSU Fire Services Training School
750 6th Street SW – Suite 205
Great Falls MT 59404
Phone: (406) 761-7885
Fax: (406) 268-3735
Website: <http://www.montana.edu/wwwfire>

This certification process is accredited by:



International Fire Service Accreditation Congress (IFSAC)
and
National Board on Fire Service Professional Qualifications (NPQS)

MSU EXTENSION SERVICE FIRE SERVICES TRAINING SCHOOL

Definitions and Acronyms - The following definitions and acronyms for the terms indicated are intended for use with the Certification Program.

Approved - Acceptable to the FTS or their authorized representative.

Authority having jurisdiction - Fire Training School (FTS).

Candidate - The person who has made application for certification.

Define - To describe the basic qualities and principles.

Demonstrate - To show by actual use or simulation.

EAP - Employee Assistance Program

Fire company - Subpart of FSO to which an individual is assigned.

Fire department - An agency of government charged with primary fire protection responsibility within a city, county, reservation, or district.

FSO - Fire service organization.

FSTS Website – <http://www.montana.edu/wwwfire>

Identify - To physically select, indicate, or explain verbally or in writing, using standard terms recognized by the fire service.

IMS - Incident Management System

May - The term is used to state a permissive use or an alternative method to a specified requirement.

Objective - A goal that is achieved through the attainment of a skill, knowledge, or both, which can be observed or measured.

Qualified - Having satisfactorily completed the requirements of the objectives.

PAR - Personnel Accountability Report

PASS - Personal Alert Safety System

Safely - To perform the objective without unreasonable risk or injury to self, others or equipment.

Shall - The term indicates a mandatory requirement.

Swiftly - The time, as determined by the qualified evaluator or FTS that it takes to perform the objective satisfactorily.

Technique - The systematic procedure by which a task is accomplished.

With competence - Possessing the knowledge, skill, and judgment needed to perform indicated objectives satisfactorily.

Fire Fighter II – Locally Tested Portion Administered by In-House Chief Officer

I _____ (Print Name) certify my signature
as: _____.

Witnessed: _____ Date: ____/____/____

6.1.1 General Knowledge Requirements. Responsibilities of the Fire Fighter II in assuming and transferring command within an incident management system, performing assigned duties in conformance with applicable NFPA and other safety regulations and authority having jurisdiction procedures, and the role of a Fire Fighter II within the organization. Resource: NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 1, 4

The candidate has demonstrated the functions in assuming and transferring command within an incident management system, performing assigned duties in conformance with applicable NFPA and other safety regulations and authority having jurisdiction procedures, and the role of a Fire Fighter II within the organization. Resource: Your FSO Leadership, IFSTA ESSENTIALS, 4th Ed., Ch 1, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 1, 4

Signed: _____ Date: ____/____/____

6.1.2 General Skill Requirements. The ability to determine the need for command, organize and coordinate an incident management system until command is transferred, and function within an assigned role in the incident management system.

The candidate has demonstrated the ability to determine the need for command, organize and coordinate an incident management system until command is transferred, and function within an assigned role in the incident management system. Resource: Your FSO Leadership IFSTA ESSENTIALS, 4th Ed., Ch 1, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 4

Signed: _____ Date: ____/____/____

6.2.1 Complete a basic incident report, given the report forms, guidelines, and information, so that all pertinent information is recorded, the information is accurate, and the report is complete.

The candidate has completed a basic incident report, given the report forms, guidelines, and information, so that all pertinent information is recorded, the information is accurate, and the report is complete. **{*Label and attach a copy of the report to this page.*}**

Resource: Local operating procedures, IFSTA ESSENTIALS, 4th Ed., Ch 18, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, p. 89-93

Signed: _____ Date: ____/____/____

6.2.2 Communicate the need for team assistance, given fire department communications equipment, standard operating procedures (SOPs), and a team, so that the supervisor is consistently informed of team needs, departmental SOPs are followed, and the assignment is accomplished safely.

The candidate has communicated the need for team assistance, given fire department communications equipment, standard operating procedures (SOPs), and a team, so that the supervisor is consistently informed of team needs, departmental SOPs are followed, and the assignment is accomplished safely.

Resource: Local operating procedures. IFSTA ESSENTIALS, 4th Ed., Ch 18, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 1, 4

Signed: _____ Date: ____/____/____

6.3.1 Extinguish an ignitable liquid fire, operating as a member of a team, given an assignment, an attack line, personal protective equipment, a foam proportioning device, a nozzle, foam concentrates, and a water supply, so that the correct type of foam concentrate is selected for the given fuel and conditions, a properly proportioned foam stream is applied to the surface of the fuel to create and maintain a foam blanket, fire is extinguished, reignition is prevented, team protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven is reached.

The candidate has demonstrated extinguishment of an ignitable liquid fire, operating as a member of a team, given an assignment, an attack line, personal protective equipment, a foam proportioning device, a nozzle, foam concentrates, and a water supply, so that the proper type of foam concentrate is selected for the given fuel and conditions, a properly proportioned foam stream is applied to the surface of the fuel to create and maintain a foam blanket, fire is extinguished, reignition is prevented, team protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven is reached. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 13, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 16, 21

Signed: _____ Date: ____/____/____

6.3.2 Coordinate an interior attack line for a team's accomplishment of an assignment in a structure fire, given attack lines, personnel, personal protective equipment, and tools, so that crew integrity is established; attack techniques are selected for the given level of the fire (for example, attic, grade level, upper levels, or basement); attack techniques are communicated to the attack teams; constant team coordination is maintained; fire growth and development is continuously evaluated; search, rescue, and ventilation requirements are communicated or managed; hazards are reported to the attack teams; and incident command is apprised of changing conditions.

The candidate has demonstrated coordinating an interior attack line team's accomplishment of an assignment in a structure fire, given attack lines, personnel, personal protective equipment, and tools, so that crew integrity is established; attack techniques are selected for the given level of the fire (for example, attic, grade level, upper levels, or basement); attack techniques are communicated to the attack teams; constant team coordination is maintained; fire growth and development is continuously evaluated; search, rescue, and ventilation requirements are communicated or managed; hazards are reported to the attack teams; and incident command is apprised of changing conditions. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 1, 2, 3, 7, 8, 10, 12, 13, 14, 16, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS Ch 2, 4, 8, 10, 13, 14, 16, 17, 21

Signed: _____ Date: ____/____/____

6.3.3 Control a flammable gas cylinder fire operating as a member of a team, given an assignment, a cylinder outside of a structure, an attack line, personal protective equipment, and tools, so that crew integrity is maintained, contents are identified, safe havens are identified prior to advancing, open valves are closed, flames are not extinguished unless the leaking gas is

eliminated, the cylinder is cooled, cylinder integrity is evaluated, hazardous conditions are recognized and acted upon, and the cylinder is faced during approach and retreat.

The candidate has demonstrated control of a flammable gas cylinder fire operating as a member of a team, given an assignment, a cylinder outside of a structure, an attack line, personal protective equipment, and tools, so that crew integrity is maintained, contents are identified, safe havens are identified prior to advancing, open valves are closed, flames are not extinguished unless the leaking gas is eliminated, the cylinder is cooled, cylinder integrity is evaluated, hazardous conditions are recognized and acted upon, and the cylinder is faced during approach and retreat. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 14, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS Ch 21

Signed: _____ Date: ____/____/____

6.3.4 Protect evidence of fire cause and origin, given a flashlight and overhaul tools, so that the evidence is noted and protected from further disturbance until investigators can arrive on the scene.

The candidate has demonstrated protecting evidence of fire cause and origin, given a flashlight and overhaul tools, so that the evidence is properly noted and protected from further disturbance until investigators can arrive on the scene. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 17, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 18, 37

Signed: _____ Date: ____/____/____

6.5.3 Prepare a pre-incident survey, given forms, necessary tools, and an assignment, so that all required occupancy information is recorded, items of concern are noted, and accurate sketches or diagrams are prepared.

The candidate has prepared a pre-incident survey, given forms, necessary tools, and an assignment, so that all required occupancy information is recorded, items of concern are noted, and accurate sketches or diagrams are prepared. **{*Label and ATTACH a copy of the survey to this page (Utilize Quick Access Form provided in appendix)*}** Resource: IFSTA ESSENTIALS, 4th Ed., Ch 11, 15, 19, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS. Ch 22, 35

Signed: _____ Date: ____/____/____

6.5.4 Maintain power plants, power tools, and lighting equipment, given tools and manufacturers' instructions, so that equipment is clean and maintained according to manufacturer and departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.

The candidate has maintained power plants, power tools, and lighting equipment, given appropriate tools and manufacturers' instructions, so that equipment is clean and maintained according to manufacturer and departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 7, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 8, 18

Signed: _____ Date: ____/____/____

6.5.5 Perform an annual service test on fire hose, given a pump, a marking device, pressure gauges, a timer, record sheets, and related equipment, so that procedures are followed, the condition of the hose is evaluated, any damaged hose is removed from service, and the results are recorded.

The candidate has performed an annual service test on fire hose, given a pump, a marking device, pressure gauges, a timer, record sheets, and related equipment, so that procedures are followed, the condition of the hose is evaluated, any damaged hose is removed from service, and the results are recorded. Resource: IFSTA ESSENTIALS, 4th Ed., Ch 12, NFPA/IAFC FUNDAMENTALS OF FIRE FIGHTER SKILLS, Ch 16

Signed: _____ Date: ____/____/____

PROCTOR'S AFFIDAVIT

Date: _____

Proctor's Name _____

By my signature, I hereby agree to administer testing for the Montana State University - Fire Services Training School in a professional manner, with integrity, and in compliance with the letter and spirit of the regulations governing the operation of the Professional Qualifications Certification System. I also certify that I have not been involved in the training of the candidate(s) for the skills which I am testing. I understand that any breach of this commitment will result in my immediate dismissal and possible legal action against me.

Proctor's Signature

Witness

***** PROCTOR IN SERVICE TRAINING *****

Location of Training: _____

Lead Instructor: _____

Date of Training: ____/____/____

APPENDIX

Address: _____

Quick Access PreFire Plan

Building Description: Roof Construction: Floor Construction:	
Occupancy Type:	Initial Resources Required:
Hazards to Personnel:	
Location of Water Supply:	Available Flow:

Estimated Fire Flow

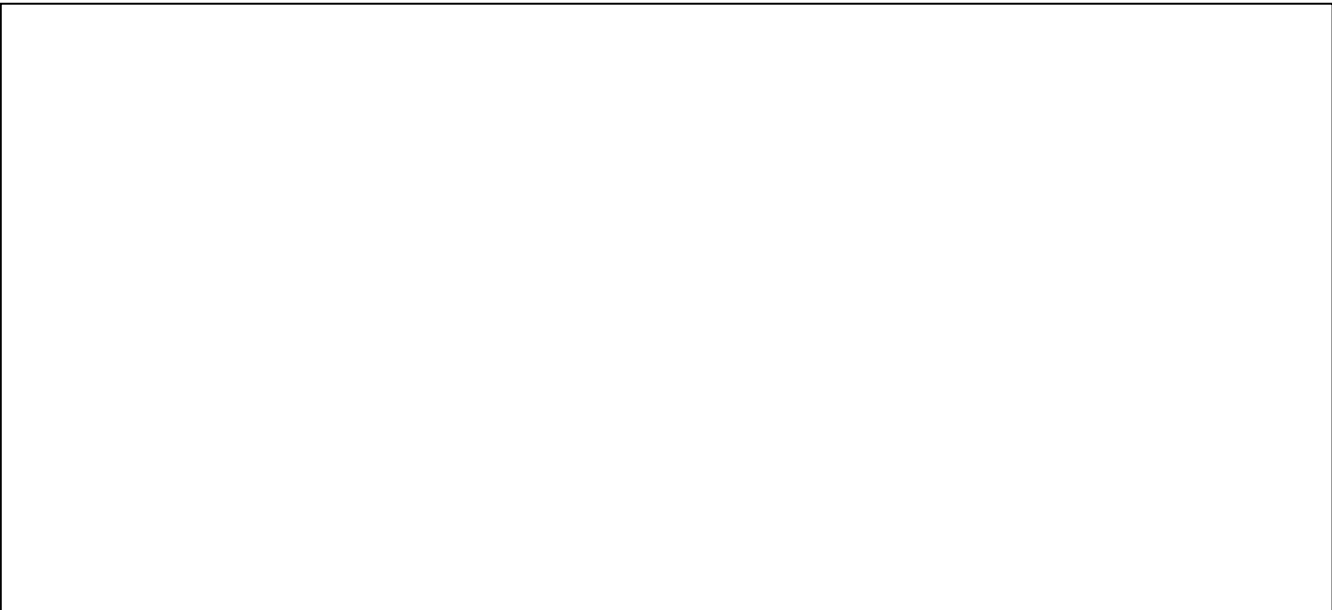
Level of Involvement	25%	50%	75%	100%
Estimated Fire Flow				
Fire Behavior Prediction:				

Predicted Strategies:		
Problems Anticipated:		
___Standpipe	___ Sprinklers	___Fire Detection

SITE PLAN



FLOOR PLAN



Building Construction and Fire Behavior Predictions:

What is the fire building construction type (classification)? _____

Where does the fire appear to be located? _____

What is the occupancy? _____

Was the structure constructed for the current occupancy? _____

Does there appear to be any significant construction deficiencies? _____

What factors of this building could be considered strengths? _____

What factors of this building could be considered concerns? _____

What avenues of fire, smoke or heat travel would you expect? _____

Are there any special safety concerns you would have for your firefighters?

What is the fire flow requirement for:

100% _____

75% _____

50% _____

25% _____

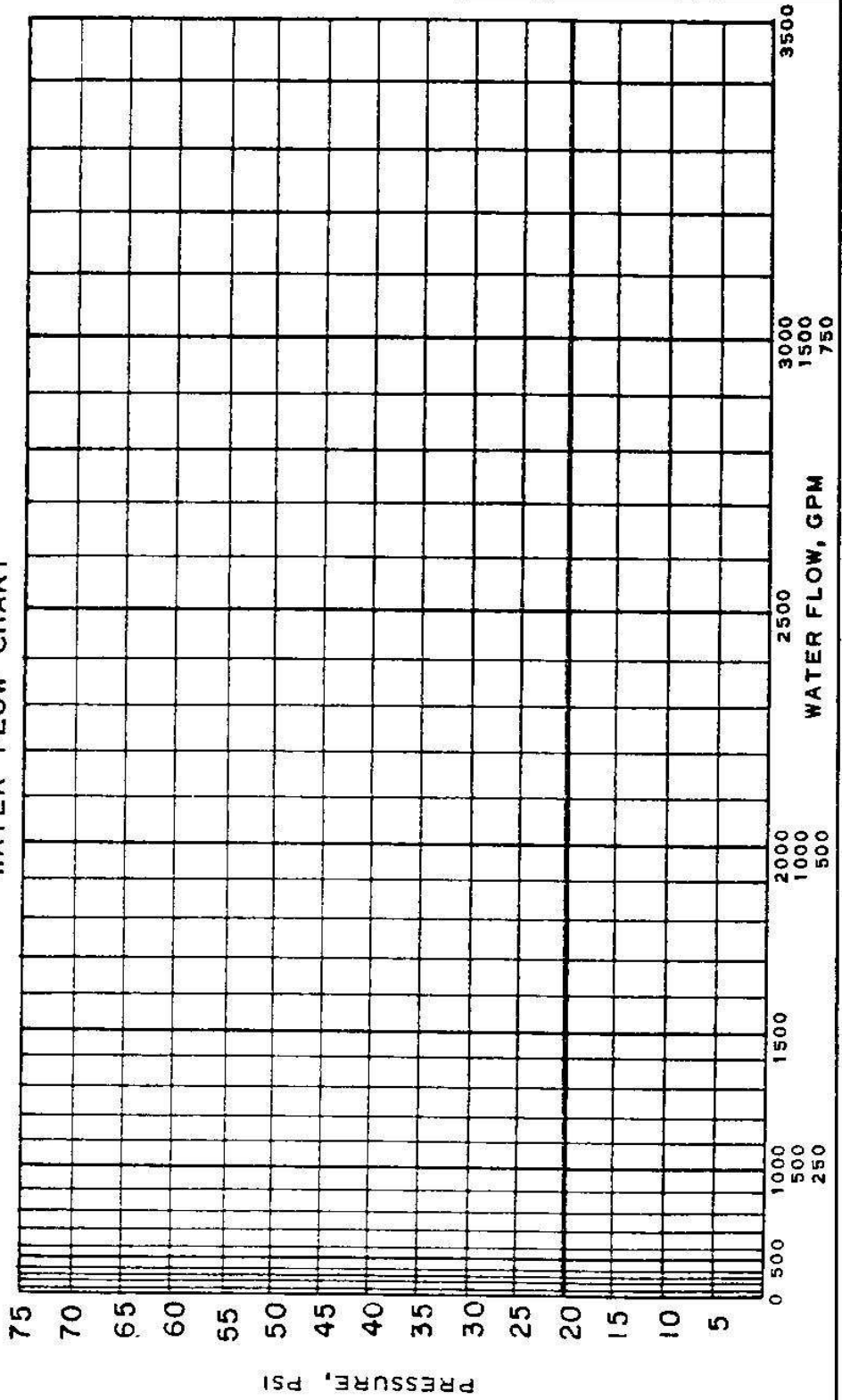
WATER FLOW TEST SUMMARY SHEET

HY-DRANTS NOS.	OUTLET DIAMETER INCHES	PITOT PRESSURES PSI	DISCHARGE GPM
1			
2			
3			

LOCATION _____ DATE _____
 STATIC PSI _____ RESIDUAL PSI _____

TOTAL DISCHARGE DURING TEST _____ G.P.M.	AVAILABLE G.P.M. AT 20 P.S.I. AT 0 P.S.I.
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WATER FLOW CHART



Fire Fighter II Tactics

This page provides documentation of completion of the tactics required for Fire Fighter II Certification. **Each tactic must be signed off by a representative of the FSTS.** Other signatures will not be accepted on this page. Bring this booklet with you when testing and be sure to have the appropriate sections completed by the evaluators before they leave the test site.

Low Angle Rescue Fire Fighter A
(Lowering / Raising Systems) _____
Evaluator Date

Low Angle Rescue Fire Fighter B _____
Evaluator Date

Low Angle Rescue Fire Fighter C _____
Evaluator Date

Low Angle Rescue (Litter) Fire Fighter A _____
Evaluator Date

Dash Roll Fire fighter A _____
Evaluator Date

Dash Roll Fire Fighter B _____
Evaluator Date

Dash Roll Fire Fighter C _____
Evaluator Date

Patient Access Fire Fighter A _____
Evaluator Date

Patient Access Fire Fighter B _____
Evaluator Date

EMERGENCY SERVICES FIRE AND RESCUE TECHNOLOGY

Associate of Applied Science Degree – MSU GF – College of Technology Phone: 406.771.4300

Catalog 2007-2008

Estimated Cost: \$11,733 (Tuition and Fees \$4,473, Application Fee \$30, Lab Fees \$180, Fire Training School up to \$6000, Books and Supplies \$1,050)

Advisor: John Culbertson

Today's firefighters not only respond to fire and medical emergencies but also participate in disaster response planning, hazardous material spill mitigation, enforcement of fire codes and standards, as well as delivery of safety, fire, and accident prevention programs. The work of the contemporary firefighter is multi-functional and requires a high level of expertise in relevant technical areas as well as proficiencies in written and oral communications, leadership, planning, and the ability to deal with a broad range of individuals and situations.

This degree program combines technical fire and rescue training with general education courses to fulfill Associate of Applied Science Degree requirements. It also incorporates the opportunity to transfer credits toward a four-year degree in Fire Science/Administration.

Outcomes: Graduates are prepared to:

Demonstrate the skills required at the Fire Fighter 1 & 2, Hazmat Technician, Officer 1 and EMT Basic levels of competency (this results in five professional certifications).

Recognize and respond effectively to fire code and fire life safety issues.

Use appropriate methods for fire suppression and extinguishment in a variety of settings.

Detect arson.

Provide basic emergency medical service

Assume supervisory responsibilities for a fire crew.

Communicate effectively both orally and in writing.

The Fire and Rescue Technology Option is offered as a cooperative endeavor between Montana State University - Great Falls College of Technology and Montana State University Fire Services Training School–Great Falls.

The availability of on-line classes through MSU-Great Falls COT will allow firefighters to complete general education degree requirements without having to relocate to Great Falls.

Required technical courses are offered at locations throughout the state, mostly on weekends. Please visit the Fire Services Training School's website at www.montana.edu/wwwfire for the latest schedule of technical courses and costs.

Program applicants should forward their requests for transfer of credit for general and technical education to the Registrar's Office at the College. Requests for transfer of credit should include official copies of transcripts. Technical credits that are not on a technical transcript need to send documents to the Registrar's Office at the College so the requests for transfer of technical credits can be reviewed.

Only the credits taken from MSU – Great Falls COT are eligible for Financial Aid. FRS prefix classes are not eligible.

General Education Requirements

Course	No.	Title	Credits
COMM	135	Interpersonal Communication	3
ENGL	124**	Business & Professional Comm	3
MATH	---**	103 or higher	3-4
PHYS	130	Fundamentals of Physical Science	4
PSY	101	General Psychology	3
SUBTOTAL			16-17

Technical Education Requirements

Course	No.	Title	Credits
EMS	137	EMT Basic	6
FRS	101	Firefighter I	5
FRS	102*	Firefighter II	5
FRS	112*	Fire Inspection & Investigation	3
FRS	241	Fire Department Internship	3
FRS	245*	Fire Service Training & Safety Education	2

TECHNICAL COURSE REQUIREMENTS DETAIL:

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
FRS 101	Fire Fighter 1	5
FRS 102	Fire Fighter 2	5
EMS 137	EMT Basic	7
FRS 112	Fire Inspection & Investigation NFA Introduction to Fire Inspection Principle Practices 1 NFA Introduction to Fire Inspection Principle Practices 2 NFA Fire Arson Detection for First Responders	3
FRS 241	Fire Department Internship 45 hours, need advisor approval for plan, goals, objectives	3
FRS 245	Fire Service Training & Safety Education Instructor "C" NFA Fire Prevention for First Responders	2
FRS 250	Building Construction NFA Building Construction 1: Wood / Ordinary NFA Building Construction 2: Fire Resist / Non-Combust	2
FRS 265	Incident Management & Safety NFA Incident Safety Officer NFA Fire Fighter Safety & Survival NIMS for Fire Service (ICS)	3
FRS 275 & 280	Tactical Operations and Company Management NFA 1021 Fire Officer 1	5

FRS	285	Hazardous Materials	5
		NFPA 472 Hazardous Materials Technician	
Total Credits:			<u>40</u>