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as revised 5/3/17
APR 17 2017

FORMAT 5

Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to jbhavie@alaska.edu)

PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR)

SUBMITTED BY:

Department	Fire Science	College/School	UAF CTC/CRCO
Prepared by	John George	Phone	907-455-2879
Email Contact	jgeorge@alaska.edu	Faculty Contact	John George

See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/> for a complete description of the rules governing curriculum & course changes.

PROGRAM IDENTIFICATION:

DEGREE PROGRAM	Fire Science
Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)	A.A.S.

A. CHANGE IN DEGREE REQUIREMENTS: (Brief statement of program/degree changes and objectives)

We are suspending the Hazardous Materials, Public Safety and Wildland Fire Control concentrations as they have experienced a decline in student enrollment. At this time it is not economically feasible to continue these concentrations.

Additionally, we will add FIRE F220 Emergency Services Safety, Health and Survival to update the degree with the US Fire Administrations Fire and Emergency Services Higher Education (FESHE) model curriculum for A.A.S. degree programs.

We are dropping EMS F261 as the course will no longer be offered.

To bring the A.A.S. Fire Science degree inline with the standard credit load, we are also reducing the total number of required credits from 69 to 60-62 credits.

The last change is to add electives following the FESHE model guidelines and removing classes that no longer have sustainable enrollments.

B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

Fire Science

College of Rural and Community Development
Community and Technical College
907-455-2853
www.ctc.uaf.edu/programs/emergency/

AAS DEGREE; MINOR

Downloadable PDF

Minimum Requirements for Degree: 63-69 credits

The fire science program provides classroom education, hands-on training and practical vocational experience through local fire and rescue organizations.

Instructors provide a high level of technical expertise on a variety of emergency and fire science services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Major -- AAS Degree

Concentrations: Hazardous Materials Control, Municipal Fire Control, Public Safety and Wildland Fire Control

Hazardous Materials Control

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:*

a. Complete the following:

EMS F170--EMT: Emergency Medical Technician I--6 credits

FIRE F110--Introduction to Hazardous Waste Operations and Emergency Response--3 credits

FIRE F121--Fire Behavior and Combustion--3 credits

FIRE F131--Fire Fighter I Series I--3 credits

FIRE F133--Fire Fighter I Series II--3 credits

FIRE F135--Fire Fighter I Series III--3 credits

FIRE F137--Fire Fighter I Series IV--3 credits

FIRE F203--Hazardous Materials Chemistry I--3 credits

FIRE F207--Hazardous Materials Technician--3 credits

FIRE F209--Hazardous Materials Command/Safety Officer--3 credits

FIRE F210--Fire Administration I--3 credits

b. Complete 9 credits from the following major elective courses:

FIRE F212--Building and Fire Codes--3 credits

FIRE F215--Advanced Hazardous Materials Technician--3 credits

FIRE F216--Methods of Instruction for Emergency Services Training--3 credits

FIRE F220--Emergency Services Safety, Health and Survival--3 credits

FIRE F231--Hazardous Materials Tactical Operations--3 credits

FIRE F249--Computer Aided Management of Emergency Operations--3 credits

FIRE F293--Special Topics--3 credits

2. General electives--6 credits
3. Minimum credits required--69 credits

** Students must earn a C- grade or better in each course.*

Note: Major electives and general electives must be approved by the student's advisor.

Municipal Fire Control

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:*

a. Complete the following:

EMS F170--EMT: Emergency Medical Technician I--6 credits

FIRE F101--Principles of Emergency Services--3 credits

FIRE F105--Fire Prevention--3 credits

FIRE F107--Strategy and Tactics--3 credits

FIRE F117--Rescue Practices--3 credits

FIRE F121--Fire Behavior and Combustion--3 credits

FIRE F131--Fire Fighter I Series I--3 credits

FIRE F133--Fire Fighter I Series II--3 credits

- FIRE F135--Fire Fighter I Series III--3 credits
- FIRE F137--Fire Fighter I Series IV--3 credits
- FIRE F202--Fire Protection Hydraulics and Water Supply--3 credits
- FIRE F203--Hazardous Materials Chemistry I--3 credits
- FIRE F206--Building Construction for Fire Protection--3 credits
- FIRE F210--Fire Administration I--3 credits
- FIRE F214--Fire Protection Systems--3 credits
- b. Complete 6 credits from the following major specialty electives:
 - FIRE F115--Fire Apparatus and Equipment--3 credits
 - FIRE F123--Fire Investigations I--3 credits
 - FIRE F151--Wildland Fire Control I--3 credits
 - FIRE F205--Hazardous Materials Chemistry II--3 credits
 - FIRE F207--Hazardous Materials Technician--3 credits
 - FIRE F212--Building and Fire Codes--3 credits
 - FIRE F216--Methods of Instruction for Emergency Services Training--3 credits
 - FIRE F218--Advanced Rescue Practices--3 credits
 - FIRE F232--Fire Fighter II--3 credits
 - EMS F261--EMT: Emergency Medical Technician II--3 credits
- 2. Minimum credits required--69 credits

** Students must earn a C- grade or better in each course.*

Note: Major electives must be approved by the student's advisor.

Public Safety

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:
 - a. Complete the following:
 - AVTY F231/EMS F257--Arctic Survival--3 credits
 - EMS F170--EMT: Emergency Medical Technician I--6 credits
 - EMS F176--Aeromedical Evacuations in Alaska--1 credit
 - FIRE F101--Principles of Emergency Services--3 credits
 - FIRE F105--Fire Prevention--3 credits
 - FIRE F117--Rescue Practices--3 credits
 - FIRE F127--Vessel Safety: Emergency Equipment and Procedures--1 credit
 - FIRE F131--Firefighter I, Series I--3 credits
 - FIRE F133--Firefighter I, Series II--3 credits
 - FIRE F135--Firefighter I, Series III--3 credits
 - FIRE F137--Firefighter I, Series IV--3 credits
 - FIRE F218--Advanced Rescue Practices--3 credits
 - JUST F110--Introduction to Justice--3 credits
 - JUST F340--Rural Justice in Alaska--3 credits
 - JUST F358--Juvenile Delinquency--3 credits
 - b. Complete 9 credits from the following major electives:
 - EMS F261--EMT: Emergency Medical Technician II--3 credits
 - FIRE F123--Fire Investigations I--3 credits
 - FIRE F151--Wildland Fire Control I--3 credits
 - FIRE F212--Building and Fire Codes--3 credits
 - FIRE F216--Methods of Instruction for Emergency Services Training--3 credits
 - JUST F345W--Police Problems--3 credits
 - JUST F352--Criminal Law--3 credits
 - JUST F354--Procedural Law--3 credits
2. Minimum credits required--68 credits

** Students must earn a C- grade or better in each course.*

Wildland Fire Control

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:*

a. Complete the following:

EMS F170--EMT: Emergency Medical Technician I--6 credits

FIRE F151--Wildland Firefighter I--3 credits

FIRE F152 Wildland Firefighter II--3 credits

FIRE F153--Wildland Firefighter III--2 credits

FIRE F154 Basic Wildland Fire Safety--1.5 credits

FIRE F155--Wildland Fire Behavior I--2 credits

FIRE F157--Wildland Air Operations--3 credits

FIRE F159--Wildland Fire Interface Operations--2 credits

FIRE F176 Wildland Fire Ignition Operations--1 credit

FIRE F251 Wildland Firefighter IV--3 credits

FIRE F252--Wildland Fire Prevention I--3 credits

FIRE F254--Incident Finance and Administration--1.5 credits

FIRE F255--Wildland Fire Behavior II--2 credits

b. Complete 15 credits from the following major elective courses:*

FIRE F161--Incident Logistics Function--2 credits

FIRE F163 Wildland Fire Dispatch I--2 credits

FIRE F165--ICS and the Incident Planning Function--2 credits

FIRE F170 Introduction to Incident Information--2 credits

FIRE F216--Methods of Instruction for Emergency Services Training--3 credits

FIRE F253 Wildland Fire Investigation I--3 credits

FIRE F257--Wildland Fire Helicopter Management--2 credits

FIRE F262--Wildland Fire Tactical Operations--2 credits

FIRE F264--Incident Business Practices--1.5 credits

FIRE F276 Prescribed Fire I--2 credits

FIRE F277 Prescribed Fire II--2 credits

FIRE F279 Prescribed Fire III--2 credits

2. Minimum credits required--63 credits

** Students must earn a C- grade or better in each course.*

Note: Major electives and general electives must be approved by the student's advisor.

Minor

1. Complete the following:

FIRE F131--Firefighter I, Series I--3 credits

FIRE F133--Firefighter I, Series II--3 credits

FIRE F135--Firefighter I, Series III--3 credits

FIRE F137--Firefighter I, Series IV--3 credits

EMS F170--Emergency Medical Technician I--6 credits

2. Minimum credits required--18 credits

PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:
C.

Fire Science

College of Rural and Community Development
Community and Technical College
907-455-2853
www.ctc.uaf.edu/programs/emergency/

AAS DEGREE; MINOR

Downloadable PDF

Minimum Requirements for Degree: ~~63-69~~ 60 credits

The fire science program provides classroom education, hands-on training and practical vocational experience through local fire and rescue organizations.

Instructors provide a high level of technical expertise on a variety of emergency and fire science services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Major -- AAS Degree

Concentrations: ~~Hazardous Materials Control, Municipal Fire Control, Public Safety and Wildland Fire Control~~

Hazardous Materials Control

- ~~1. Complete the general university requirements.~~
- ~~2. Complete the AAS degree requirements.~~
- ~~3. Complete the following program (major) requirements:~~

a. Complete the following:

- ~~EMS F170 EMT: Emergency Medical Technician I - 6 credits~~
- ~~FIRE F110 Introduction to Hazardous Waste Operations and Emergency Response - 3 credits~~
- ~~FIRE F121 Fire Behavior and Combustion - 3 credits~~
- ~~FIRE F131 Fire Fighter I Series I - 3 credits~~
- ~~FIRE F133 Fire Fighter I Series II - 3 credits~~
- ~~FIRE F135 Fire Fighter I Series III - 3 credits~~
- ~~FIRE F137 Fire Fighter I Series IV - 3 credits~~
- ~~FIRE F203 Hazardous Materials Chemistry I - 3 credits~~
- ~~FIRE F207 Hazardous Materials Technician - 3 credits~~
- ~~FIRE F209 Hazardous Materials Command/Safety Officer - 3 credits~~
- ~~FIRE F210 Fire Administration I - 3 credits~~
- b. Complete 9 credits from the following major elective courses:
 - ~~FIRE F212 Building and Fire Codes - 3 credits~~
 - ~~FIRE F215 Advanced Hazardous Materials Technician - 3 credits~~
 - ~~FIRE F216 Methods of Instruction for Emergency Services Training - 3 credits~~
 - ~~FIRE F220 Emergency Services Safety, Health and Survival - 3 credits~~
 - ~~FIRE F231 Hazardous Materials Tactical Operations - 3 credits~~
 - ~~FIRE F249 Computer Aided Management of Emergency Operations - 3 credits~~
 - ~~FIRE F293 Special Topics - 3 credits~~

- ~~2. General electives - 6 credits~~
- ~~3. Minimum credits required - 69 credits~~

5/10/2017
Email attached
for back-up;
see last
page. *JP*

~~* Students must earn a C- grade or better in each course.~~

~~Note: Major electives and general electives must be approved by the student's advisor.~~

Municipal Fire Control

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:*

a. Complete the following:

~~EMS F170--EMT: Emergency Medical Technician I--6 credits~~
~~FIRE F101--Principles of Emergency Services--3 credits~~
~~FIRE F105--Fire Prevention--3 credits~~
~~FIRE F107--Strategy and Tactics--3 credits~~
~~FIRE F117--Rescue Practices--3 credits~~
~~FIRE F121--Fire Behavior and Combustion--3 credits~~
~~FIRE F131--Fire Fighter I Series I--3 credits~~
~~FIRE F133--Fire Fighter I Series II--3 credits~~
~~FIRE F135--Fire Fighter I Series III--3 credits~~
~~FIRE F137--Fire Fighter I Series IV--3 credits~~
~~FIRE F202--Fire Protection Hydraulics and Water Supply--3 credits~~
~~FIRE F203--Hazardous Materials Chemistry I--3 credits~~
~~FIRE F206--Building Construction for Fire Protection--3 credits~~
~~FIRE F240--Fire Administration I--3 credits~~
~~FIRE F214--Fire Protection Systems--3 credits~~
FIRE F 220 Emergency Services Safety, Health and Survival 3 credits

b. Complete ~~6~~ 15 credits from the following major specialty electives:

~~FIRE F115--Fire Apparatus and Equipment--3 credits~~
~~FIRE F123--Fire Investigations I--3 credits~~
EMS F170--EMT: Emergency Medical Technician I--6 credits
FIRE F107--Strategy and Tactics--3 credits
FIRE F117--Rescue Practices--3 credits
~~FIRE F151--Wildland Fire Control I--3 credits~~
FIRE F202--Fire Protection Hydraulics and Water Supply--3 credits
FIRE F210--Fire Administration I--3 credits
~~FIRE F205--Hazardous Materials Chemistry II--3 credits~~
~~FIRE F207--Hazardous Materials Technician--3 credits~~
~~FIRE F212--Building and Fire Codes--3 credits~~
~~FIRE F216--Methods of Instruction for Emergency Services Training--3 credits~~
~~FIRE F218--Advanced Rescue Practices--3 credits~~
~~FIRE F232--Fire Fighter II--3 credits~~
~~EMS F261--EMT: Emergency Medical Technician II--3 credits~~

2. Minimum credits required ~~69~~ 60 credits

~~* Students must earn a C- grade or better in each course.~~

~~Note: Major electives must be approved by the student's advisor.~~

Public Safety

- ~~1. Complete the general university requirements.~~
- ~~2. Complete the AAS degree requirements.~~
- ~~3. Complete the following program (major) requirements:*~~

a. Complete the following:

~~AVTY F231/EMS F257 Arctic Survival 3 credits~~
~~EMS F170 EMT: Emergency Medical Technician I 6 credits~~
~~EMS F176 Aeromedical Evacuations in Alaska 1 credit~~
~~FIRE F101 Principles of Emergency Services 3 credits~~
~~FIRE F105 Fire Prevention 3 credits~~
~~FIRE F117 Rescue Practices 3 credits~~
~~FIRE F127 Vessel Safety: Emergency Equipment and Procedures 1 credit~~
~~FIRE F131 Firefighter I, Series I 3 credits~~
~~FIRE F133 Firefighter I, Series II 3 credits~~
~~FIRE F135 Firefighter I, Series III 3 credits~~
~~FIRE F137 Firefighter I, Series IV 3 credits~~
~~FIRE F218 Advanced Rescue Practices 3 credits~~
~~JUST F110 Introduction to Justice 3 credits~~
~~JUST F340 Rural Justice in Alaska 3 credits~~
~~JUST F358 Juvenile Delinquency 3 credits~~

b. Complete 9 credits from the following major electives:

~~EMS F261 EMT: Emergency Medical Technician II 3 credits~~
~~FIRE F123 Fire Investigations I 3 credits~~
~~FIRE F151 Wildland Fire Control I 3 credits~~
~~FIRE F212 Building and Fire Codes 3 credits~~
~~FIRE F216 Methods of Instruction for Emergency Services Training 3 credits~~
~~JUST F345W Police Problems 3 credits~~
~~JUST F352 Criminal Law 3 credits~~
~~JUST F354 Procedural Law 3 credits~~

2. Minimum credits required 68 credits

**Students must earn a C grade or better in each course.*

Wildland Fire Control

1. Complete the general university requirements.
2. Complete the AAS degree requirements.
3. Complete the following program (major) requirements:*

a. Complete the following:

~~EMS F170 EMT: Emergency Medical Technician I 6 credits~~
~~FIRE F151 Wildland Firefighter I 3 credits~~
~~FIRE F152 Wildland Firefighter II 3 credits~~
~~FIRE F153 Wildland Firefighter III 2 credits~~
~~FIRE F154 Basic Wildland Fire Safety 1.5 credits~~
~~FIRE F155 Wildland Fire Behavior I 2 credits~~
~~FIRE F157 Wildland Air Operations 3 credits~~
~~FIRE F159 Wildland Fire Interface Operations 2 credits~~
~~FIRE F176 Wildland Fire Ignition Operations 1 credit~~
~~FIRE F251 Wildland Firefighter IV 3 credits~~
~~FIRE F252 Wildland Fire Prevention I 3 credits~~
~~FIRE F254 Incident Finance and Administration 1.5 credits~~
~~FIRE F255 Wildland Fire Behavior II 2 credits~~

b. Complete 15 credits from the following major elective courses:*

~~FIRE F161 Incident Logistics Function 2 credits~~
~~FIRE F163 Wildland Fire Dispatch I 2 credits~~
~~FIRE F165 ICS and the Incident Planning Function 2 credits~~
~~FIRE F170 Introduction to Incident Information 2 credits~~
~~FIRE F216 Methods of Instruction for Emergency Services Training 3 credits~~
~~FIRE F253 Wildland Fire Investigation I 3 credits~~
~~FIRE F257 Wildland Fire Helicopter Management 2 credits~~
~~FIRE F262 Wildland Fire Tactical Operations 2 credits~~
~~FIRE F264 Incident Business Practices 1.5 credits~~
~~FIRE F276 Prescribed Fire I 2 credits~~

~~FIRE F277 Prescribed Fire II--2 credits~~
~~FIRE F279 Prescribed Fire III--2 credits~~

~~2. Minimum credits required--63 credits~~

~~* Students must earn a C grade or better in each course.~~

~~Note: Major electives and general electives must be approved by the student's advisor.~~

Minor

1. Complete the following:
FIRE F131--Firefighter I, Series I--3 credits
FIRE F133--Firefighter I, Series II--3 credits
FIRE F135--Firefighter I, Series III--3 credits
FIRE F137--Firefighter I, Series IV--3 credits
EMS F170--Emergency Medical Technician I-6-credits
2. Minimum credits required--18_credits

D. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

No additional budget increase, no additional facilities or space required by these changes.

E. IMPACTS ON PROGRAMS/DEPTS:

What programs/departments will be affected by this proposed action?

Include information on the Programs/Departments contacted (e.g., email, memo)

No significant impact anticipated for other programs or departments.

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.)

Student learning outcomes assessment plan on file will be changed to reflect only assessment of the learning outcomes related to municipal fire control.

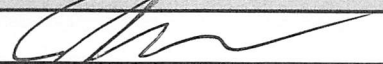

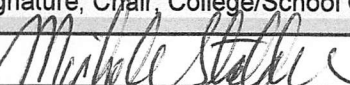
JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

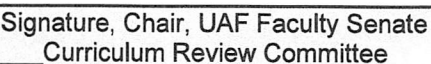
The United States Fire Administration publishes requirements for fire science degree programs through FEMA and the National Fire Academy. The proposed degree changes bring our fire science program back inline with these requirements.

We have been advised by the Provost Office to reduce the degree program from 69 credits if possible. This change would allow students to complete the A.A.S. with a more traditional credit load without negatively impacting student learning outcomes.

APPROVALS: SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

	Date	3/31/17
Signature, Chair, Program/Department of: <u>Public Safety and Emergency Services, Fire Science</u>		
	Date	3/20/17
Signature, Chair, College/School Curriculum Council for: <u>CTC</u>		
	Date	4/17/17
Signature, Dean, College/School of: <u>CTC</u>		

CHAIR SIGNATURE OBTAINED FOLLOWING APPROVAL BY FACULTY SENATE COMMITTEE

	Date	
Signature, Chair, UAF Faculty Senate ___ Curriculum Review Committee		
___ Graduate Academic and Advisory Committee		

CRC Item 108 UPCh Fire Science Format 5 - Revision

Galen Johnson <gjohns55@alaska.edu>

Wed, May 10, 2017 at 10:57 AM

To: Jayne Harvie <jbharvie@alaska.edu>

Cc: Rainer Newberry <rjnewberry@alaska.edu>, John George <jgeorge@alaska.edu>

Hi Jayne,

Sorry for loosing track of this after struggling with converting the PDF to something I could revise more easily, but here is the proposed revision to section C: (red lettering) to address the fact that, due to the proposed temporary suspension of the Hazardous Materials Control, Public Safety and Wildland Fire Control concentrations, the Fire Science AAS degree program will now offer only one concentration: Municipal Fire Control.

Fire Science

College of Rural and Community Development

Community and Technical College

907-455 2853

www.ctc.uaf.edu/programs/emergency/

AAS DEGREE; MINOR

Downloadable PDF

Minimum Requirements for Degree: ~~63-69~~ **60** credits

The fire science program, **which presently emphasizes only Municipal Fire Control**, provides classroom education, hands-on training and practical vocational experience through local fire and rescue organizations.

Instructors provide a high level of technical expertise on a variety of emergency and fire science services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Major - AAS Degree

I have also attached a hand-marked up copy of the FORMAT 5 with this additional wording. Let me know if there are any questions regarding this item and thank you for allowing us to sneak this one in so late.

Galen

--

Galen R. Johnson P.E., Coordinator
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