

**FORMAT 1**

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).  
See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/> for a complete description of the rules governing curriculum & course changes.

**TRIAL COURSE OR NEW COURSE PROPOSAL**

**SUBMITTED BY:**

<b>Department</b>	Emergency Services: Fire Science	<b>College/School</b>	CRCD/CTC
<b>Prepared by</b>	Tylan Martin	<b>Phone</b>	907-347-8386
<b>Email Contact</b>	Tjmartin5@alaska.edu	<b>Faculty Contact</b>	John George

**1. ACTION DESIRED (CHECK ONE):** Trial Course  New Course

**2. COURSE IDENTIFICATION:** Dept  Course #  No. of Credits

Justify upper/lower division status & number of credits:

**3. PROPOSED COURSE TITLE:**

**4. To be CROSS LISTED? YES/NO**  If yes, Dept:  Course #

(Requires approval of both departments and deans involved. Add lines at end of form for such signatures.)

**5. To be STACKED? YES/NO**  If yes, Dept:  Course #

**6. FREQUENCY OF OFFERING:**   
Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) — or As Demand Warrants

**7. SEMESTER & YEAR OF FIRST OFFERING (AY2011-12 if approved by 3/1/2012; otherwise AY2012-13)**

**8. COURSE FORMAT:**

NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

**COURSE FORMAT:** (check all that apply)  1  2  3  4  5  6 weeks to full semester

**OTHER FORMAT (specify)**   
**Mode of delivery (specify lecture, field trips, labs, etc)**

**9. CONTACT HOURS PER WEEK:**  LECTURE hours/weeks  LAB hours /week  PRACTICUM hours /week

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/guidelines-for-computing/> for more information on number of credits.

**OTHER HOURS (specify type)**

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

**FIRE F253 Wildland Fire Investigation I**

**3.0 credits (3+0)**

Consistent fundamentals and technical knowledge base needed for the wildland fire origin and cause determination investigator (INVF). The concepts taught will include recognizing and conducting origin and cause determination, preservation of evidence and documentation, which will aid an investigator to perform at a professional level on a national basis. Course is based on a National Wildfire Coordinating Group (NWCG) course.

NWGC Course included: FI-210 Wildland Fire Origin and Cause Determination

Offered as Demand Warrants

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

H = Humanities  S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form. YES:  NO:

IF YES, check which core requirements it could be used to fulfill:

O = Oral Intensive, Format 6  W = Writing Intensive, Format 7  Natural Science, Format 8

12. COURSE REPEATABILITY:

Is this course repeatable for credit? YES  NO

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).

How many times may the course be repeated for credit?  TIMES

If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?  CREDITS

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?  CREDITS

13. GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitutes a Major Course Change.

LETTER:  PASS/FAIL:

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES  These will be required before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CONDITIONS

16. PROPOSED COURSE FEES

Has a memo been submitted through your dean to the Provost for fee approval?   
Yes/No

17. PREVIOUS HISTORY

Has the course been offered as special topics or trial course previously?   
Yes/No

If yes, give semester, year, course #, etc.:

[Empty box for semester/year/course information]

**18. ESTIMATED IMPACT**

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

No anticipated additional impact

**19. LIBRARY COLLECTIONS**

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No  Yes  No library resources required. Library was contacted on 3/6/2012

**20. 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)

School of Management - Bachelors of Emergency Management

**21. POSITIVE AND NEGATIVE IMPACTS**

Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

Positive impact: Provides additional credit opportunity for students to meet the BEM requirement of 30 credits from an AAS Fire Science degree.  
Negative impact: None anticipated

**JUSTIFICATION FOR ACTION REQUESTED**

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course 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. Use as much space as needed to fully justify the proposed course.

This course has been recommended by our wildland fire task force to meet the current industry needs for wildland fire. The course is composed of preexisting NWCG courses and realigns the degree and curriculum to match industry presentation methods.

**APPROVALS: Add additional signature lines as needed.**

<SEE SIGNATURE ON NEXT PAGE> Date [ ]  
Signature, Chair, Program/Department of: [ ]

[Signature] Date 11-19-12  
Signature, Chair, College/School Curriculum Council for: CTC

[Signature] Date 11/19/12  
Signature, Dean, College/School of: CTC

[ ] Date [ ]  
Signature of Provost (if applicable)

Offerings above the level of approved programs must be approved in advance by the Provost.

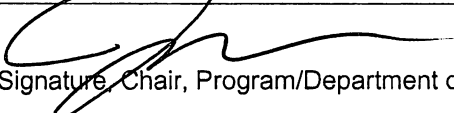
**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

	Date
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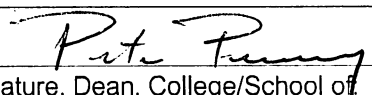
Signature, Chair

Faculty Senate Review Committee:  Curriculum Review  GAAC  
 Core Review  SADAC

**ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)**

	Date
Signature, Chair, Program/Department of: <u>Emergency Services and Public Safety</u>	

	Date
Signature, Chair, College/School Curriculum Council for:	

	Date
Signature, Dean, College/School of: <u>CRCO</u>	

**University of Alaska Fairbanks  
Community and Technical College  
Emergency Services Program  
FIRE 253 – Wildland Fire Investigation I  
3.0 (3+0) Credits  
Course Syllabus**

**Course Description:**

Consistent fundamentals and technical knowledge base needed for the wildland fire origin and cause determination investigator (INVF). The concepts taught will include recognizing and conducting origin and cause determination, preservation of evidence and documentation, which will aid an investigator to perform at a professional level on a national basis. Course is based on a National Wildfire Coordinating Group (NWCG) course.

NWGC Course included:

FI-210 Wildland Fire Origin and Cause Determination

Offered as Demand Warrants

**Course Goals:**

Successful course completion combined with national age, physical fitness and appropriate experience requirements as administered by a federal or state wildland fire agency will qualify the student for interagency fire qualification certification.

**Prerequisites:**

FIRE 151, FIRE 155 & FIRE 252 or Instructor permission

**Student Learning Outcomes:**

The successful student will be able to:

Identify the elements of the NWCG Fire Investigation Certification program.  
Perform the common roles and responsibilities of a fire investigator involved in an initial investigation environment.  
Practice professional wildland fire investigation methods, evidence collection and documentation processes in a realistic environment.  
Identify the laws, regulations and related court procedures associated with administrative, civil and criminal litigation processes.

**Methods:**

The course is presented by lectures, electronic presentations, field exercises, and class discussion.

**Instructor Qualifications:**

Lead and unit instructors must be qualified wildland fire investigators with actual hands-on experience.

**Location and Meeting Times:**

Room X, University Park Center, 1000 University Avenue  
Date 1 through Date 2, Day of the week(s), Start Time – End Time

**Grading Policy:**

<b>Average Score</b>	<b>Letter Grade</b>
90 and above	A
80 to 89.99	B
70 to 79.99	C
60 to 69.99	D
0 to 59.99	F

Attendance and Participation:	20%
Quizzes:	30%
Course Examinations:	50%

**Policies:**

Attendance is required at all sessions with individual participation expected. Homework is due on specified dates. Late work will be accepted with penalty. Individual needs may be discussed. Academic integrity is expected and plagiarism is unacceptable.

**UAF Honor Code**

The public holds emergency services personnel accountable to the highest standards of ethics. The credibility of our degree program requires that we meet those expectations in every way possible. As a UAF student, you are subject to the Honor Code. The University assumes that the integrity of each student and the student body as a whole will be upheld. Honesty is a primary responsibility of you and every other UAF student. It is your responsibility to help maintain the integrity of the student community including the reporting any observed violations to the Instructor or Program Coordinator. UAF's Honor Code is as follows:

1. Students will not collaborate on any quizzes, in-class exams, or take-home assignments that will contribute to their grade in a course, unless permission is granted by the course instructor. Only those materials permitted by the instructor

may be used to assist in quizzes and exams. The use of study groups is encouraged.

2. Students will not represent the work of others as their own. A student will attribute the source of information not original with himself or herself (direct quotes or paraphrases) in compositions, theses and other reports. (Specifically prohibited for this course are reports composed by other students from previous course offerings and any Internet sources.)

3. No work submitted for one course may be submitted for credit in another course without the explicit approval of both instructors. Students may use the same report topic and references from other courses if the Instructor is provided with a graded copy of any similar submissions to show that an identical report has not been submitted for credit twice.

Violations of the Honor Code will result in a failing grade for the assignment and for the course in which the violation occurred. Violations of the Honor Code may result in suspension or expulsion.

#### **Disability Services:**

The Office of Disability Services implements the Americans with Disability Act (ADA), and insures that UAF students have equal access to the campus and course materials. Your instructor will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to student with disabilities.

#### **Student Texts and Supplies:**

NFES 002817	FI-210 Student Workbook
NFES 002818	FI-210 CD-ROM Pre-work
NFES 002165	Fireline Handbook App B: Fire Behavior, PMS 410-2
NFES 001874	Wildfire Origin and Cause Determination Handbook, PMS 412-1

#### **Suggested Reading:**

Students should come to class prepared for discussion and note taking.

#### **Course Calendar with Readings and Work Assignments:**

(Subject to variation as the class progresses.)

**Session 1**

0800-0900 Unit 0 – Introduction and Certification  
0900-1100 Unit 1 – Professional Standards for Wildland Fire Investigators  
1100-1200 Unit 2 – Fire Behavior and Burn Pattern Indicators  
1200-1300 Lunch  
1300-1600 Unit 2 – Fire Behavior and Burn Pattern Indicators (continued)  
1600-1700 Unit 3 – Fire Scene Evidence

**Session 2**

0800-1100 Unit 4 – Fire Investigation Methodology  
1100-1200 Unit 5 – Witness Interviewing  
1200-1300 Lunch  
1300-1700 Practical Exercise A: Burn Pattern Indicators and Physical Evidence

**Session 3**

0800-1200 Unit 6 – Ignition Factors and Sources  
1200-1300 Lunch  
1300-1400 Practical Exercise B: Ignition Factors and Sources  
1400-1700 Practical Exercise C: Burn Pattern Indicators and Witness Interviewing

**Session 4**

0800-1100 Unit 7 – Arson Recognition  
1100-1200 Unit 8 – Court Preparation and Testimony  
1200-1300 Lunch  
1300-1700 Practical Examination

**Session 5**

0800-1000 Practical Examination Presentation  
1000-1200 Final Exam

*Schedule for 40 hours (5 days)*

**Instructors:**

Instructor #1 Name

Contact Information:

e-mail  
Office  
Home  
Cell

Instructor #2 Name

Contact Information:

email:  
Office



Home  
Cell