### TRIAL COURSE OR NEW COURSE PROPOSAL

**SUBMITTED BY:**

<table>
<thead>
<tr>
<th>Department</th>
<th>College/School</th>
<th>CRCD/CTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Services: Fire Science</td>
<td>Tylan Martin</td>
<td>907-347-8386</td>
</tr>
<tr>
<td>Email Contact</td>
<td>Faculty Contact</td>
<td>John George</td>
</tr>
<tr>
<td><a href="mailto:tjmartin5@alaska.edu">tjmartin5@alaska.edu</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **ACTION DESIRED**
   (CHECK ONE):
   - Trial Course
   - New Course [X]

2. **COURSE IDENTIFICATION**:
   - Dept: FIRE
   - Course #: F253
   - No. of Credits: 3.0
   - Intermediate level course fitting the curriculum for the AAS Wildland fire at the 200 level

3. **PROPOSED COURSE TITLE**:
   - Wildland Fire Investigation I

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**:
   - As Demand Warrants
   - 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)**
   - Spring 2013

8. **COURSE FORMAT**:
   - COURSE FORMAT:
   - (check all that apply)
   - OTHER FORMAT (specify)
   - Mode of delivery (specify lecture, field trips, labs, etc)
   - Lecture

9. **CONTACT HOURS PER WEEK**:
   - 3.0 LECTURE hours/weeks
   - 0 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/](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: [X]

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: [X]

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?

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

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

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

LETTER: [X] PASS/FAIL: [ ]

14. PREREQUISITES

FIRE 151, FIRE 155, FIRE 252 or Instructor’s permission

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

15. SPECIAL RESTRICTIONS, CONDITIONS

16. PROPOSED COURSE FEES

S 0

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
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 X □ 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: 

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

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

Signature, Chair
Faculty Senate Review Committee: ___Curriculum Review   ___GAAC
___Core Review   ___SADAC

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

Signature, Chair, Program/Department of: Emergency Services and Public Safety
Date 10/4/12

Signature, Chair, College/School Curriculum Council for:

Date 12/3/12

Signature, Dean, College/School of:

Date
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:

<table>
<thead>
<tr>
<th>Average Score</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 and above</td>
<td>A</td>
</tr>
<tr>
<td>80 to 89.99</td>
<td>B</td>
</tr>
<tr>
<td>70 to 79.99</td>
<td>C</td>
</tr>
<tr>
<td>60 to 69.99</td>
<td>D</td>
</tr>
<tr>
<td>0 to 59.99</td>
<td>F</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFES 002817</td>
<td>F1-210 Student Workbook</td>
</tr>
<tr>
<td>NFES 002818</td>
<td>F1-210 CD-ROM Pre-work</td>
</tr>
<tr>
<td>NFES 002165</td>
<td>Fireline Handbook App B: Fire Behavior, PMS 410-2</td>
</tr>
<tr>
<td>NFES 001874</td>
<td>Wildfire Origin and Cause Determination Handbook, PMS 412-1</td>
</tr>
</tbody>
</table>

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