TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

Department: Emergency Services: Fire Science
Prepared by: Tylan Martin
Email: Tjmartin5@alaska.edu

College/School: CRCD/CTC
Phone: 907-347-8386
Faculty Contact: John George

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

2. COURSE IDENTIFICATION:
Dept: FIRE
Course #: F278
No. of Credits: 2.0

Justify upper/lower division status & number of credits:
Intermediate level course fitting the curriculum for the AAS Wildland fire at the 200 level

3. PROPOSED COURSE TITLE:
Prescribed Fire III

4. To be CROSS LISTED?
YES/NO
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
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:
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: [X] 0 weeks to full semester
(check all that apply)

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

9. CONTACT HOURS PER WEEK:
2.0 LECTURE hours/weeks 0 LAB hours/week 0 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.ua.edu/uaegov/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 F278 Prescribed Fire III

2.0 credits (2 + 0)

This course is designed to provide students with the knowledge and skills necessary to recognize and communicate the relationships between basic fire regimes and first order fire effects, the effects of fire treatments on first order fire effects, and to manipulate fire treatments to achieve desired first order fire effects. This course is based on a National Wildfire Coordinating Group (NWCG) course.

NWGC Course included: RX-310 Introduction to Fire Effects

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).

TIMES

CREDITS

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

LETTER: X

PASS/FAIL:

REstrictions on Enrollment (If Any)

14. PREREQUISITES

FIRE 155, FIRE 255 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

$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

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>

Signature, Chair, Program/Department of:  

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

Signature, Dean, College/School of: CTC  

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: Engineering Services and Public Safety

Date 10/4/12

Signature, Chair, College/School Curriculum Council for:

Date 12/3/12

Signature, Dean, College/School of: CPE-CO
University of Alaska Fairbanks
Community and Technical College
Emergency Services Program
FIRE – Prescribed Fire 3

2.0 Credits
Course Syllabus

Course Description:

This course is designed to provide students with the knowledge and skills necessary to recognize and manage prescribed fire smoke and reduce its impacts on public health and welfare. This includes familiarization with the Smoke Management Guide and air quality regulations that impact prescribed fire programs. This course is based on a National Wildfire Coordinating Group (NWCG) course.

NWGC Course included: RX-410 Smoke Management Techniques

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 certifications.

Prerequisites:

FIRE-155 and FIRE 255 or instructor’s permission

Student Learning Outcomes:

The successful student will be able to:

- Demonstrate an understanding of fire as an ecological process using the concepts of fire regimes and first order fire effects at multiple scales.
- Given an altered fire regime and a variety of socio-political issues and resource concerns, identify realistic management solutions in an adaptive management framework.
- Communicate effectively with fire and resource professionals based on a common understanding of first order fire effects.
- Demonstrate an understanding of how fire management related resource issues interact.
- Discuss how to manipulate fire treatments to achieve desired first order fire effects.

Methods:
The course is interactive lecture with visuals. Group discussion is strongly encouraged. Lectures will be aided by demonstrations and exercises. Homework assignments, periodic quizzes and unit finals will document student progress.

**Minimum Instructor Qualifications:**

All instructors should have familiarity working with fire management programs and a thorough understanding of fire effects as it applies to their specialty.

**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>
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<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%  
Exercise: 40%  
Examinations: 40%

**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:

None

Suggested Readings:

There may also be assigned readings from the internet and class handouts.

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
- **0900-0930** Unit 1 – The Smoke Management Challenge
- **0930-1000** Unit 2 – Leadership in Smoke Management
- **1000-1100** Unit 3 – Ecological and Historical Role of Fire
- **1100-1200** Unit 4 – Characteristics of Smoke
- **1200-1300** Lunch
- **1300-1330** Unit 5A – Public Health Impacts
- **1330-1430** Unit 5B – Fire Personnel Impacts
- **1430-1500** Unit 5C – Visibility Impacts
- **1500-1600** Unit 5D – Safety and Nuisance Impacts
- **1600-1700** Unit 5E – Public Relations

### Session 2
- **0800-0900** Unit 6A – Legal Requirements for Managing Smoke from Wildland Fire
- **0900-1000** Unit 6B – State Smoke Management Programs
- **1000-1200** Unit 6C – Roles Relationships and Jurisdictions
- **1200-1300** Lunch
- **1300-1500** Unit 7 – Smoke Management Meteorology
- **1500-1700** Unit 8 – Fuel Consumption and Smoke Production

### Session 3
- **0800-1000** Unit 9 – Smoke Emissions and Dispersion Modeling
- **1000-1100** Unit 10 – Operational smoke Management Strategies
- **1130-1230** Unit 11 – Smoke Monitoring and Evaluation of Impacts
- **1230-1330** Lunch
- **1330-1400** Unit 12A – NEPA Documentation
- **1400-1500** Unit 12B – Incorporating Smoke Management Into a Burn

### Session 4
- **0800-1100** Unit 13 – Case Studies
- **1100-1300** Lunch and Review
- **1300-1500** Final Exam

*Schedule to provide for 32 contact hours*
Instructors:
Instructor #1 Name

Contact Information:
e-mail
Office
Home
Cell

Instructor #2 Name

Contact Information:
email:
Office
Home
Cell