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.

Department	Emergency Service	ergency Services: Fire College/School CRCD/Conce		CD/CTC				
Prepared by	Tylan Martin		Phon	e	907-347-83		347-8386	
Email Contact	Tjmartin5@ala	ska.edu	Facu	lty Contact			John	George
1. ACTION DE	SIRED (CHECK ONE):	Trial (Course		New	Course	X	
2. COURSE ID	ENTIFICATION:	Dept	FIRE	Course #	F255	No. of	Credits	2.0
	er/lower division mber of credits:	ntermediate leve	l course fitting	the curriculum	for the AA	S Wildland	fire at the 2	00 level
3. PROPOSED	COURSE TITLE:			Wildland Fir	e Behavio	rll		
4. To be CROS. YES/NO	S LISTED?	No	If yes, Dep	t:	Cou	ırse #		
	proval of both departme	nts and deans ir	volved. Add	lines at end of f	orm for suc	h signature	es.)	
5. To be STACK YES/NO	CED?	No	If yes, Dep	t.	Cou	rse#		
s. FREQUENC	Y OF OFFERING:	Spring, E	ven-Numbered	l Years				
		Fall, Spring, S	ummer (Ever	y, or Even-numl As Deman	pered Year d Warrants		numbered Y	ears) — o
. SEMESTER	& YEAR OF FIRST O	FFERING (AY	2011-	Spring 2014				
	by 3/1/2012; otherwis							
	nours may not be compr approved by the college	or school's curri						
COURSE FOR	apply)]1	2	3 4		5 X	6 weeks semeste	-
COURSE FOR (check all that OTHER FOR Mode of deli	RMAT: apply) RMAT (specify)	cture	2	3 4		5 X	1	-
COURSE FOR (check all that OTHER FOR Mode of delinecture, field 9. CONTACT I	RMAT: apply) RMAT (specify) very (specify Le trips, labs, etc) HOURS PER WEEK:	2.0	LECTURE hours/wee	ks	LAB hours /we	ek	semeste PRAC hours	CTICUM
COURSE FOR (check all that OTHER FOR Mode of delir lecture, field 9. CONTACT II Note: # of credit. 1600 n credit. This m	RMAT: apply) RMAT (specify) very (specify trips, labs, etc)	2.0 t hours. 800 minub=1 credit. 240 bus. See http://w	hours/wee nutes of lectur 0-4800 minut ww.uaf.edu/u	ks re=1 credit. 240 es of practicums afgov/faculty-se	hours /we 0 minutes =1 credit. 2	ek of lab in a s	PRAC hours science couminutes of i	CTICUM s /week rse=1 nternship

FIRE F255 Wildland Fire Behavior II	
2.0 credits (2+0)	
This course will give students an understanding of the determinants of fire behavior throug datum for fire (weather, slope, fuels and fuel moisture). Operation of fire behavior prediction and selecting proper inputs, interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread, fire line interpreting the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of spread of the results in terms of rate of the results in terms of rate of spread of	on tools, assessing asity, potential for
NWGC Course included: S-390 Introduction to Wildland Fire Behavior Calculations	
Offered Spring Even-numbered Years	
COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Cour classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences	ncil to apply S or H
Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.	NO: X
IF YES, check which core requirements it could be used to fulfill: O = Oral Intensive, Format 6	ence, Format 8
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?	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 <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course?	CREDITS
GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitution of the change. LETTER: X PASS/FAIL:	tutes a Major Cours
STRICTIONS ON ENROLLMENT (if any) PREREQUISITES FIRE 155 or Instructor's permission These will be required before the student is allowed to enroll in the course.	
SPECIAL RESTRICTIONS, CONDITIONS	
as a memo been submitted through your dean to the Provost for fee approval?	
as a memo been submitted through your dean to the Provost for fee approval?	

If yes, give semester, year, course #, etc.:	
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 of library/media collections, equipment, and services available for the proposed couresolution. 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 depart action.	ments resulting from the proposed
Positive impact: Provides additional credit opportunity for students to a credits from an AAS Fire Science degree.	meet the BEM requirement of 30
Negative impact: None anticipated	
JUSTIFICATION FOR ACTION REQUESTED	
The purpose of the department and campus-wide curriculum committees is to course applications to make sure that the quality of UAF education is not lowe change. Please address this in your response. This section needs to be self-	red as a result of the proposed
as needed to fully justify the proposed course. This course has been recommended by our wildland fire task force to me for wildland fire. The course is composed of preexisting NWCG courses a curriculum to match industry presentation methods.	
APPROVALS. Add additional signature lines as needed	
APPROVALS: Add additional signature lines as needed.	
(SEE SIGNATURE ON NEXT PAGE)	Date
Signature, Chair, Program/Department of:	
Musted Commission Comm	Date 11-19-12
Signature, Chair, College/School Curriculum Council for:	
Signature, Dean, College/School of:	Date ///19/12
] [
	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
Signature, Chair	
Faculty Senate Review Committee:Curriculum ReviewGAA	AC
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)	,
(m	Date 10/4/12
Signature, Chair, Program/Department of: Tuyong Sewis	ad Public Salety
	Date
Signature, Chair, College/School Curriculum Council for:	
Pite trum	Date 12/3/12
Signature, Dean, College/School of:	

University of Alaska Fairbanks Community and Technical College Emergency Services Program FIRE 255 – Wildland Fire Behavior II 2.0 (2 + 0) Credits Course Syllabus

Course Description:

This course will give students an understanding of the determinants of fire behavior through studying input datum for fire (weather, slope, fuels and fuel moisture). Operation of fire behavior prediction tools, assessing and selecting proper inputs, interpreting the results in terms of rate of spread, fire line intensity, potential for extreme fire behavior; and documentation processes. Course is based on a National Wildfire Coordinating Group (NWCG) course.

NWGC Course included:

S-390 Introduction to Wildland Fire Behavior Calculations

Offered Spring Even-numbered Years

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

Student Learning Outcomes:

The successful student will be able to:

List the assumptions, limitations, and appropriate uses of fire behavior prediction models.

Describe how environmental factors and processes affect fire behavior predictions and safety.

Define and interpret fire behavior prediction model inputs.

Calculate fire behavior outputs using available fire behavior processors.

Interpret, communicate, apply, and document wildland fire behavior and weather information.

Methods:

The course is primarily lecture with visuals. Group discussion is strongly encouraged. Homework assignments, periodic quizzes and unit finals will document student progress.

Instructor Qualifications:

Lead instructor must have completed S-490, Advanced Fire Behavior Calculations and be a NWCG qualified division group supervisor, incident commander type 3, or prescribed fire burn boss type 1; recommend that the lead instructor be a NWCG qualified fire behavior analyst.

Unit instructors must be NWCG qualified as strike team leader, task force leader, or prescribed fire burn boss type 2.

A meteorologist is highly recommended to instruct the weather sections of this course.

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:

Average	Letter
Score	Grade
90 and above	Α
80 to 89.99	В
70 to 79.99	С
60 to 69.99	D
0 to 59.99	F

Attendance and Participation: 20% Quizzes: 40% Course 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:

NFES 002931	S-390 Student Workbook
NFES 002933	S-390 Student CD-ROM
NFES 002165	Fireline Handbook App B: Fire Behavior, PMS 410-2
NFES 002220	Fire Behavior Nomograms, PMS 436-3
NFES 002231	Ruler, 10 Scale, clear plastic

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
0900-1000	Unit 1 - Topography
1000-1100	Unit 2A - Atmospheric Stability
1100-1200	Unit 2B - Winds
1200-1300	Lunch
1300-1430	Unit 2B – Winds (continued)
1430-1600	Unit 2C - Weather Information and Forecasts
Session 2	
0800-1000	Unit 3 - USFBPS Fuel Models
1000-1200	Unit 4 - Fuel Moisture
1200-1300	Lunch
1300-1600	Unit 5A - Non-Electronic Wildland Fire Behavior Processors
Session 3	
0800-1000	Unit 5A (Continued)
1000-1200	Unit 5B - Spotting Model
1200-1300	Lunch
1200-1300 1300-1400	Lunch Unit 5C - Safety Zone Calculations
1300-1400	Unit 5C - Safety Zone Calculations
1300-1400 1400-1630	Unit 5C - Safety Zone Calculations
1300-1400 1400-1630 Session 4	Unit 5C - Safety Zone Calculations Unit 6A - Plotting Fire Size and Shape
1300-1400 1400-1630 Session 4 0800-1030	Unit 5C - Safety Zone Calculations Unit 6A - Plotting Fire Size and Shape Unit 6B - Point Source
1300-1400 1400-1630 Session 4 0800-1030 1030-1230	Unit 5C - Safety Zone Calculations Unit 6A - Plotting Fire Size and Shape Unit 6B - Point Source Unit 7 - Extreme Fire Behavior Lunch Unit 8 - Documentation, Briefings, and Monitoring for Fireline Safety
1300-1400 1400-1630 Session 4 0800-1030 1030-1230 1230-1330	Unit 5C - Safety Zone Calculations Unit 6A - Plotting Fire Size and Shape Unit 6B - Point Source Unit 7 - Extreme Fire Behavior Lunch

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