Submit original with signatures + 1 copy + electronic copy to UAF Governance.

See http://www.uaf.edu/uafgov/faculty/cd for a comblete description of the rules governing curriculum 65 course changes.

		TRIA				OURSE P			Course	· changes.	
SUBMITTED B	Y:	Hat EVA							28/11		
Department	BIOL				Colleg	College/School CNSM		SM	11-51-11-21		
Prepared by	Laura Conner				Phone		(907) 474-6950				
Email Contact	ldconner@alaska.edu				Facul Conta		Laura Co				
1. ACTION DESIRED (CHECK ONE): Trial Coun				al Course			New	Course	X		
2. COURSE ID	ENTIFICATI	ON:	Dept	STO		Course #	602	No. of C	Credits	2	1
Justify upper/lov status & number	The state of the s					lecture, eq		dits. It is par	t of the p	roposed	
B. PROPOSED	COURSE TIT	TLE:			N	Aentoring i	n the Scien	ces			
4. CROSS LIST YES/NO (Requires app	ED? proval of both de	partments	NO and deans in		, Dept:	end of form		atures.)			
5. STACKED?	YES	S/NO	NO	If yes	s, Dept.		Cou	rse#			
6. FREQUENC	Every fall.										
				(Every or A	lternate)	Fall, Spring,	Summer —	or As Deman	d Warran	RECEIV	VED
7. SEMESTER	& YEAR OF	FIRST O	FFERING	(if	F	all 2014				A STEEL MAN.	
approved)							71275	11-11-11	-	EP 14	2012
8. COURSE FO NOTE: Course h approved by the the core review of	ours may not be college or schoo	compress 's curricul	ed into fewer um council.	than three Furthermore	days per e, any cor	credit. Any c e course com	ourse compre pressed to le	essed in 0490 ss than six w	e of Na	Dean's Of tural-Science t be approved	& Mathe
COURSE FORM (check one)	IAT:		1	2	3	4	É	X	6 weeks semester	to full	
OTHER FORM	AT (specify)										
Mode of delivery lecture, field trip		Lectu	re								
9. CONTACT I	HOURS PER	WEEK:		2 LECT			LAB hours/wee	ek	Sec. and Company	CTICUM s /week	
	its are based on -science lab=1 c			utes of lecti	ire=1 cre	dit. 2400 mi	nutes of lab i	n a science co	ourse=1 c	redit. 1600	natch

10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):

with the syllabus. See http://www.uaf.edu/uafgov/faculty/cd/credits.html for more information on number of credits.

STO 602 Mentoring in the Sciences 2 credits

Course overview

OTHER HOURS (specify type)

This course provides a forum for graduate students to develop their mentoring philosophy and build effective mentoring skills. Effective mentoring can be learned, but not taught. Good mentors are normally produced through years of practice, successes and failures, and no two mentoring situations are alike. This course seeks to provide a discussion and learning environment for accelerating the process of learning to be a mentor. Through discussion of

Governance 9/26/12 TUP case studies, activities and readings provided in course materials, students will consider mentoring philosophy, articulate it, anticipate challenges and practice effective solutions to a variety of mentoring issues.

If justification is needed, attach on separate sheet.)
H = Humanities N = Natural Science S = Social Sciences
Will this course be used to fulfill a requirement for the baccalaureate core? YES X 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 X 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?
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: LETTER: PASS/FAIL: X
RESTRICTIONS ON ENROLLMENT (if any)
14. PREREQUISITES Graduate standing
These will be required before the student is allowed to enroll in the course.
RECOMMENDED Classes, etc. that student is strongly encouraged to complete prior to this course.
15. SPECIAL RESTRICTIONS,
CONDITIONS
16. PROPOSED COURSE FEES §
Has a memo been submitted through your dean to the Provost & VCAS for fee approval? Yes/No
17. PREVIOUS HISTORY
Has the course been offered as special topics or trial course previously? Yes/No Yes
If yes, give semester, year, course #, etc: Although the course was not previously offered as a 693 or 694, it has previously been offered as a seminar course, BIOL 692, in Spring of 2008 and 2010.
18. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
No budget impact is anticipated; the costs are limited to faculty salaries and minimal administrative costs (copying, etc.). Dr. Mary Beth Leigh, Associate Professor of Biology and Wildlife, will teach the course as part of her regular workload. No impacts on facilities and/or space is anticipated.
part of her regular workload. The impacts on the most space of an array part of her regular workload.
TO LINDARY COLLECTIONS
19. LIBRARY COLLECTIONS Have you contacted the library collection development officer (ffklj@uaf.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 Karen Jensen, the Library Collection Development Officer, was
contacted on August 27 th , 2012 about the Graduate Certificate in
Science Education and Outreach. We determined that the
collections contain sufficient journal subscriptions in science education to support these efforts. In addition, many of the

	required course books (National Research Council) for the certificate are freely available as pdf files.					
	certificate are freely available as put files.					
What programs/dep	PROGRAMS/DEPTS partments will be affected by this proposed action?					
Include information on th	he Programs/Departments contacted (e.g., email, memo)					
	e open to all science and engineering graduate students, and is envisioned as a required course					
for the proposed Scientific Teaching and Outreach Program. Any science or engineering graduate student can take the course, regardless of whether or not they are enrolled in the certificate program.						
, POCITIVE AND	NIECATHUE IMPACTS					
Please specify positive	NEGATIVE IMPACTS we and negative impacts on other courses, programs and departments resulting from the proposed action.					
	isioned as part of a package of courses in the proposed Graduate Certificate in Science reach. Completion of this certificate will better prepare science graduate students for the					
responsibilities of f	faculty and other professional positions, and is expected to make them more competitive in					
he job market.						
course application change. Please at needed to fully ju Mentoring is a skil permanent course or critical part of the paraduate students by	the department and campus-wide curriculum committees is to scrutinize course change and new ons to make sure that the quality of UAF education is not lowered as a result of the proposed address this in your response. This section needs to be self-explanatory. Use as much space as a sustify the proposed course. Il that is critical for faculty positions and other professional positions in the sciences, yet no currently exists that addresses strategies for mentoring science undergraduates. This course is a proposed Graduate Certificate in Science Teaching and Outreach. The certificate will make better teacher and communicators of their science. These skills will help raise the quality of					
indergraduate instr hemselves will be	truction at UAF by arming Teaching Assistants with teaching training. The graduate students enefit by becoming increasingly competitive on the job market after graduation, and will					
	ence ambassadors to the public.					
PPROVALS:						
	Date 14,201					
Signature, Chair, I	Program/Department of: Bolosy and Wildlife					
Canba	Date 9/25/2012					
Signature, Chair, C	College/School Curriculum Council for: (NSM)					
Tan	Date 9/25/12					
Signature, Dean, C	College/School of:					
	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	нто тн	E GOVERNANCE OFFICE
Signature, Chair, UAF Faculty Senate Curriculum Review Committee	Date	
ADDITIONAL SIGNATURES: (If required)		
	Date	
Signature, Chair, Program/Department of:		
Signature Chair College/School Curriculum Council for	Date	
Signature, Chair, College/School Curriculum Council for:	Date	
Signature, Chair, College/School Curriculum Council for:	Date	

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SYLLABUS Mentoring in the Sciences STO 602 2 credits

Instructor: Dr. Mary Beth Leigh

Office: 228 West Ridge Research Building (WRRB)

Phone: 474-6656

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Email: mbleigh@alaska.edu

Office hours: TBA

Class time and locations

MW 10:30-11:30

Course overview

This course provides a forum for graduate students to develop their mentoring philosophy and build effective mentoring skills. Effective mentoring can be learned, but not taught. Good mentors are normally produced through years of practice, successes and failures, and no two mentoring situations are alike. This course seeks to provide a discussion and learning environment for accelerating the process of learning to be a mentor. Through discussion of case studies, activities and readings provided in course materials, students will consider mentoring philosophy, articulate it, anticipate challenges and practice effective solutions to a variety of mentoring issues.

Prerequisites

The course is geared toward graduate students in the Scientific Teaching graduate certificate program and other grad students in a wide range of scientific fields. Other early career participants (e.g. postdocs, new faculty) are welcome, space permitting No prior experience in mentoring is required.

Course materials

- Textbook Entering Mentoring: A Seminar to Train a New Generation of Scientists. J Handelsman, SM Lauuffer, CM Pribbenow, C Pfund. Howard Hughes Medical Institute. Itchy Cat Press. 2008.
- Other readings from texts, primary literature, and the press will be assigned on an ad hoc basis for background and discussion

Course goals and Student Learning Objectives

- Develop a mentoring philosophy and articulate it in written form
- Build a personal step-by-step guide for initiating and maintaining and healthy mentoring relationship.
- Develop a proposed project for a mentee.
- Prepare to resolve an array of mentoring issues through case studies, discussion, role playing and/or written proposals.

Course format: Assigned readings and case studies will be the springboard for discussions. A variety of scientifically supported active learning teaching techniques will be incorporated into the class to engage students with a diversity of learning styles and to promote active engagement. Writing skills will be developed through peers and instructor feedback to written work, with opportunities for revision in major assignments.

Assessment:

Students will be given a pass/fail grade based on evaluation by the instructor on their attendance, participation and leadership in discussion, completion of assignments, and comprehension of the material. Students are expected to attend all meetings. Absences may be excused with permission in advance or afterward for valid reasons (e.g. family medical).

Students with disabilities

UAF is committed to equal opportunity for all students. Students with even minor disabilities, students who are the first in their families to attempt a four-year college degree, or students whose incomes are low, have opportunities for tutorial and other forms of support from the office of Disability Services or the office of Student Support Services. If you need classroom accommodations or other support, please meet with me during office hours as soon as possible to let me know; and please make an appointment with the Office of Disability Services and Student Support Services, to enlist the appropriate support. I will collaborate to provide the appropriate accommodations and supports or services to assist you in meeting the goals of the course.