

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

Department Veterinary N		1edicine	icine College/School		CNSM			
Prepared by Aaron Kall			Phone	Phone		474-1928		
Email Contact	Contact ajkallas@alaska.edu Faculty Contact		y Contact	Arleigh Reynolds				
1. ACTION DESIRED (CHECK ONE):		:Trial Course			New Course X			
2. COURSE ID	ENTIFICATION:	Dept	BMSC	Course #	314	No. of Credits	2	
		scientific concontemporal support the which include managemer career explosions. BLaST Skills relative to mand foundat biological reformat according to the from the UA communicated The course.	The primary neepts and pry research avarious aspete; common tot, scientific voration. See Seminar I, protectional skills the search. Top in application application of the conclude oic of choice.	rocesses papproaches cts and processes and processes and tevelo at are most ics will be packed a hands-on of the topic ommunity vexperience with stude	resented in Secondly gress of rechniques imunication udents with the common presented in research will preservand backgont inspired	in coursewo y, the semin research pro of research in strategies th schedule oject manage in biomedic in a lecture ory activity to ch. Guest lea in the materinground with	rk to lars will lipects, lipects, lipects and of topics lipement, lipectal and lipecturers lipecturer	
3. PROPOSED	COURSE TITLE:			BLaST Skills	s Seminar I			
4. To be CROSS LISTED? YES/NO		NO	If yes, Dept		Course			
NOTE: Cross-l signatures	isting requires appro	oval of both depar	tments and deans	involved. Add	lines at end o	f form for additio	nal required	
5. To be STACK	E D ? YES/NO	NO	If yes, Dept.		Cou	irse #		
other? How wi	e two course level Il each be taught	at the appropria leve	ate	lov Poviou Com	:u	the Creducts A		

of what are supposed to be two differe (i.e. is there undergraduate and gradu being undertaxed? In this context, the	ferent syllabi—undergraduate and graduate versions—will help emphasize the different qualities ent courses. The committees will determine: 1) whether the two versions are sufficiently different ate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students e committees are looking out for the interests of the students taking the course. Typically, if either More info online – see URL at top of this page.
6. FREQUENCY OF OFFERING:	Fall each year
William of Street	Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) — or As Demand Warrants
7. SEMESTER & YEAR OF FIRST Of if approved by 3/1/2013; otherwise	
8. COURSE FORMAT: NOTE: Course hours may not be commust be approved by the college or somust be approved by the Core Review COURSE FORMAT: (check all that apply) OTHER FORMAT (specify)	ppressed into fewer than three days per credit. Any course compressed into fewer than six weeks chool's curriculum council. Furthermore, any core course compressed to less than six weeks w Committee. 1 2 3 4 5 X 6 weeks to full semester
Mode of delivery (specify lecture, field trips, labs, etc)	Lecture
1600 minutes in non-science lab=1	hours/weeks hours /week hours /week hours /week hours /week act hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelines-
OTHER HOURS (specify type)	
10. <u>COMPLETE</u> CATALOG DESCRIF stacking (50 words or less if p Example of a <u>complete</u> description: FISH F487 W, O Fisheries Manager	
3 Credits Offered Spring Theory and practice of fisheri- freshwater and marine fisheri-	es management, with an emphasis on strategies utilized for the management of es. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or F425; or permission of instructor. Cross-listed with NRM F487. (3+0)
BMSC 314 BLaST Skills Ser 2 Credits Offered Fall Required course for BLaST S about, experience and discuss This course links academic " contemporary research appr including; Mentoring relation scientific writing, communica	Scholars. Open to all UAF students; providing the opportunity to learn s research and research methods. Big Idea" scientific concepts and processes presented in coursework to oaches. Course supports the progress of student research projects, nships, common tools and techniques of research, project management and ation strategies in the sciences. Prerequisites: BMSC 214: BMSC 224 or
permission of instructor. 2+0	

H = Humanities		S = Soc	rial Sciences			
Will this course be used to fulfil for the baccalaureate core? If YE				YES:	NO:	x
IF YES, check which core require	ments it could be used	d to fulfill:				
O = Oral Intensive, Format 6	W = Writing I	ntensive, Forma	it 7	X = Bac	calaureate C	ore
A Is course content related to northe led in the printed Catalog, and flagged YES			f yes, a	"snowfl	ake" symbo	ol will b
COURSE REPEATABILITY:						
Is this course repeatable for credit?	YES		NO [X		
Justification: Indicate why the cou example, the course follows a diff						
How many times may the course	be repeated for credit	?			Т	IMES
If the course can be repeated for comay be earned for this course?	credit, what is the max	kimum numbe	r of credit h	ours that	С	REDIT
If the course can be repeated with hours that may be earned for this	variable credit, what	is the maximu	um number	of credit	C	REDITS
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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)

There should be no impact on other departments.

21. POSITIVE AND NEGATIVE IMPACTS

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

There should be no impact on other departments.

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.

BLaST Skills Seminar I, will be the third course in a sequence of courses (BMSC 214, BMSC 224, BMSC 314, BMSC 324) designed to support students during mentored independent research projects. This course is for all students who are interested in understanding biomedical research methodology or are interested in understanding how to develop a scientific research project. Students who are considering applying for BLaST funding in the future may be encouraged to attend but this is not a mandatory condition for applying for funding and will not be a factor into the evaluation for funding. The course will be open to any UAF undergraduate student who may be interested.

BLaST Undergraduate Scholarship recipients (Scholars) are required to attend and participate. It is recommended, but not mandatory, that participants in this course are currently involved in research activities.

Impacts:

This course has run twice (Fall'16 and Spring '17) as a special topics course, BMSC 393, with total enrollment between the two sections has been 22 BLaST Scholars. It has gone extremely well from both the instructor and student perspectives and has greatly helped in developing our student's ability to manage ongoing mentored projects and enhance their research skills. Many of the guest lecturers are current researchers or graduate students sponsored by BLaST and come from a myriad of background experiences and subject matter. Students have gained new perspective about the importance of interdisciplinary science and the need to broaden knowledge beyond their discipline and seek multiple mentors with various areas of expertise.

Guest lecturers related well to the undergraduate students as a peer, this is an important element that we need within the BLaST program with regard to foster a mentored research program. Students are more connected to the research community and aware of opportunities in research they had not previously known to exist.

DocuSigned by:	Date	February 6, 201
Signatude Cas Cast Program/Department of: Veterinary Medici		
Patricia Doak	Date	February 6, 2017
Signature: Chair, College/School Curriculum Council for: CNS	<u>SM</u>	
- Docusigned by:	Date	February 6, 2017
Signature: Dean, College/School of: CNSM		
Offerings above the level of approved programs must be approved	ved in advance	oy the Provost.
	Date	
Signature of Provost (if above level of approved programs)	Date	
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Signature, Chair Faculty Senate Review Committee:Curriculum Review	Date	ERNANCE OFFICE
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ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at: http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/ The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied. SYLLABUS CHECKLIST FOR ALL UAF COURSES. During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline): 1. Course information: ☐ Title, ☐ number, ☐ credits, ☐ prerequisites, ☐ location, ☐ meeting time (make sure that contact hours are in line with credits). 2. Instructor (and if applicable, Teaching Assistant) information: □ Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: \square Course textbook title, \square author, \square edition/publisher. \square Supplementary readings (indicate whether \square required or \square recommended) and any supplies required. 4. Course description: ☐ Content of the course and how it fits into the broader curriculum; \square Expected proficiencies required to undertake the course, if applicable. \square Inclusion of catalog description is strongly recommended, and Description in syllabus must be consistent with catalog course description. 5. Course Goals (general), and (see #6) 6. Student Learning Outcomes (more specific) 7. Instructional methods: ☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.). 8. Course calendar: A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester. 9. Course policies: ☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity. 10. Evaluation: \square Specify how students will be evaluated, \square what factors will be included, \square their relative value, and \Box how they will be tabulated into grades (on a curve, absolute scores, etc.) \square Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C": http://www.uaf.edu/files/uafgov/Info-to-Publicize-C Grading-Policy-UPDATED-May-2013.pdf 11. Support Services: Describe the student support services such as tutoring (local and/or regional) appropriate for the course. 12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials. ☐ State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

5/21/2013

Fall 2017 BLaST Skills Seminar I: Project Management and Foundational Skills

1. Course Information

Title:

BLaST Research Skills Seminar

Number:

BMSC 314 (CRN _____)

Credit:

2

Prerequisites:

BMSC 214, BMSC 224 or permission of instructor

Location:

AHRB 186

Meeting Time:

Tuesday 3:30 - 5:30

2. Course Director Contact:

Co-Instructor: Arleigh Reynolds

E-mail: ajreynolds@alaska.edu

Phone: 474-1928 **Office:** 182 AHRB

Hours: By appointment

Co-Instructor: Aaron Kallas

E-mail: ajkallas@alaska.edu

Phone: 907-903-3360 **Office:** Murie 130

Hours: By appointment

3. Reading Materials:

Any session specific readings will be provided in class or via email or Blackboard.

4. Course Description:

BMSC F314 BLaST Skills Seminar I: Project Management and Foundational Skills

2 Credits Offered Fall

Required course for BLaST Scholars. Open to all UAF students; providing the opportunity to learn about, experience and discuss research and research methods. This course links academic "Big Idea" scientific concepts and processes presented in coursework to contemporary research approaches. Course supports the progress of student research projects, including; Mentoring relationships, common tools and techniques of research, project management and scientific writing, communication strategies in the sciences. Prerequisites: BMSC 214: BMSC 224 or permission of instructor. 2+0+0

BLaST Skills Seminar I, presents students with schedule of topics relative to mentoring, project development, project management, and foundational skills that

are most common in biomedical and biological research. Topics will be presented in a lecture style format accompanied by a hands-on participatory activity that will reinforce the application of the topic in research. Guest lecturers from the UAF research community will present the material and communicate their own experience and background with students. The course will conclude with student inspired presentations on a research topic of choice.

5. Course Objectives:

- a. Foster healthy mentoring relationships
- b. Connect academic topics to applications in research
- c. Highlight strategies for project management
- d. Present laboratory lab management strategies
- e. Support project proposal creation and submission
- f. Present skills, techniques and equipment used in biomedical research
- g. Provide an open forum for sharing of ideas

6. Student Learning Outcomes:

- a. Appreciate contemporary research approaches
- b. Gain an understanding of the use of foundational research tools and techniques in biomedical research
- c. Learn strategies to assess and support research activities and projects
- d. Define, understand, and demystify terminology used when discussing research and research methods
- e. Learn cooperation and communication strategies
- f. Feel confident in their ability to pursue further research training and experiences
- g. Learn to troubleshoot problems and issues in the research process.

7. Instructional Methods:

Group discussions, activities, speakers, readings, videos, lectures, and assignments will comprise the course.

8. Course Calendar:

Week	Topics	Targeted Skills
1	Mentor/Mentee Relations	Setting expectations, Collaborations, Conflict Resolution Strategies.

2	Project Management Strategies	Developing a timeline, Realistic Goal setting, Needs assessments, networking.		
3	Proposal and Grant Writing Essentials	Manuscripts, Abstracts, Grant fundamentals.		
4	Data Management Strategies	Record keeping, collection methods, analytical models, data storage		
5	Laboratory Management	Note booking, Record keeping, Equipment maintenance, quality control, General safety, Lab Layouts.		
6	Essential Chemistry and Lab Math	Solutions, Dilutions, Concentrations, pH, Buffers, Etc		
7	Microscopy	Microscopy, Slide Preparation, Light Microscopy, confocal/immuno- fluorescent, TEM, SEM.		
8	Sampling Techniques	Field Sampling, Tissue Sampling, Storage and cataloging, Labeling.		
9	Proteomics	Protein synthesis, Protein structure and functions, Immunological applications.		
10	Prokaryotic Cell Culturing	Differential Media, Selective Media, Prokaryotic, Aseptic technique, incubation		
11	Cell Assays	Staining, Cell Plating, Live/Dead Assays, CFA,		
12	Spectrophotometry	Plate Readers, Spectrophotometers (Visible/UV), Flourometry,		
13	PCR and Electrophoresis	Methods of PCR, Primer development, PCR Optimization, Reagents and solutions, Validation through Electrophoresis		
14	Student Topic Presentations	TBD		
15	Student Topic Presentations	TBD		

9. Course Policies:

Participation:

Participation during class is important. Please feel free to ask questions as they occur to you and to offer your opinions during discussions. We are here to help!

Attendance:

You are expected to attend all classes. If you miss a class, you are responsible for obtaining the information covered from another student. It is strongly recommended that you do not miss any days, as it will be extremely difficult if not impossible to recreate activities for makeup.

Technology in the Classroom:

Please quiet your cell phones during class and refrain from text messaging and chatting with your classmates during lectures (see Technology in the Classroom). Please use your laptops, notebooks, and electronic tablets for class purposes only.

Ethics:

Academic integrity is vitally important to the mission of the university. If you are caught cheating or plagiarizing in any way, you will receive a failing score on that assignment. There will be no exceptions. If you are unsure about what constitutes plagiarism, students re encouraged to contact the instructor(s) for assistance.

10. Evaluation:

Participation and Attendance (10pts/session = 150 points total):

Course content is condensed with a great deal of information delivered daily. Many aspects of this course will focus on using scientific tools, techniques and skills in the application of the research activities. It is essential that students are present, on time, and cooperative.

Reflective Free-Writes (20pts/ea. = 300 points total):

For each session, students will access reflective writing prompts on Blackboard and will be expected to upload responses to those prompts within one week from the session date into Blackboard for scoring. The format, questions and content will vary depending on the material and concepts presented in each session. Each free write is rubric scored. No late submissions will be accepted.

Topic Proposal and Presentation (120 points total):

Each student will select a topic of their choice and develop a small 10-15 minute presentation to the share with the class at the conclusion of the semester. Students are encouraged to select topics that are relative to the theme of project management or foundational skills not directly addressed during the seminars. A written rationale will be submitted and topic approved by the instructor. Presentation will be rubric scored with a large emphasis on professional disposition and delivery.

Graded Item	<u>Points</u> per each	Total Points Possible	Sessions with Due Dates
 Attendance and Participation 	10	150	Each Session
Reflective Free-WritesTopic ProposalTopic Presentation	20 20 100	300 20 100	Each Session Week 12 Week 14 & 15
		Total = 570 Possible Points	

The grading for the course will be based on the components outlined above. Final letter grades will be assigned as follows:

$$\geq$$
 90% = A 70-79% = C 80-89% = B 60-69% = D < 60% = F

11. Student Resources and Support Services

We are here to help you enjoy and succeed in this class. Take advantage of our office hours or make an appointment if you have concerns or questions.

Disability Services provided through The Office of Disability Services at UAF (203 Whitaker/Fire Station, 474-7043) implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. Your instructor(s) will work with the Office of Disabilities Services to provide reasonable accommodations to students with documented disabilities. If applicable, please make arrangements with your instructor(s) within the first few weeks of classes. If you have not already done so, you will also need to contact UAF's Office of Disability Services by email at uaf-disabilityservices@alaska.edu, by phone at (907)474-5655, or by TTY at (907)474-1827.

The Writing Center (Gruening 8th floor, 474-5314) will help you prepare and print your papers.

Student Support Services (http://www.uaf.edu/sssp/) (Gruening 5th floor, 474-6844) are available to students who meet federal TRIO guidelines: low-income OR first-generation college OR have a documented disability. Services include: 1) free tutorial services; 2) small study groups; 3) academic advising, mentoring, and personal support; 4) direct financial assistance to qualified Pell Grant recipients; 5) use of laptop computers, labs, and other technology resources; and 6) cultural and social engagement.

The Student Health and Counseling Center (2^{nd} floor of the Whitiker Building/Fire Station, 474-7043, open Monday – Friday 8 am – 5 pm). Students enrolled for at least nine credits can receive up to six free counseling sessions.

Veterans Services/Veterans Resource Center (111 Eielson, 474-2475). VA certifying officials in Financial Aid, as well as military and veteran points of contact in the offices of Admissions and the Registrar and Career Services. These services are here to foster a smooth transition from military to civilian life. pchokenson@alaska.edu or visit Veterans Services on the web http://www.facebook.com/UAFVA

Speaking Center (email fyspeak@gmail.com or call 907-474-5470) offers students help in conceiving, organizing, writing, delivering, and refining an individual or group presentation. Student may have their presentations digitally recorded for their own viewing.

University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska. If you believe you are experiencing discrimination or any form of harassment including sexual harassment/ misconduct/assault, you are encouraged to report that behavior. If you report to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident. Your choices for reporting include:

- 1. You may access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043;
- 2. You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 474-6600;
- 3. You may file a criminal complaint by contacting the University Police Department at 474-7721.

BLaST Skills Seminar Reflection Essays

The purpose of the skills seminars are to link the big ideas of science to the tools and methods of research. It's important to reflect on new learning and consider the personal impacts. The questions below are meant to stimulate reflection on what was presented and allow you an opportunity to make connections to your own personal growth as a researcher. Each response, of up to 200 words, needs to show *reference to specific examples* presented in the seminar and be rich, thoughtful, and in-depth. Every prompt must have a response for credit.

Please utilize this word document to construct your essays and edit for spelling and grammar. When finished, keep the word document as evidence of completion and upload your responses to BlackBoard using the assignment upload link. Each submission is worth a total of 20 possible points. This assignment is due no later than one week from the date of the seminar it covers; late assignments will receive a score of zero. Refer to the scoring rubric for how the responses will be evaluated.

Name	:
Semir	nar topic:
Semir	par date:
Quest	ions:
1.	Explain the impacts this topic has on research? Why is it important?
2.	Describe three ideas or facts that you found most interesting from today's presentation and how each changed your perspective, practice, or understanding.
3.	What questions do you still have about this topic? What was most difficult to understand?
4.	Describe specifically how the tools/resources presented today could help you in your future as a researcher.

BLaST Seminar Reflective Writing Rubric

Skills	5pts	4pts	3pts	2pts	1pt
Depth of Reflection	Demonstrate a conscious and thorough understanding of the writing prompt and the subject matter. This reflection can be used as an example for other students.	Demonstrate a thoughtful understanding of the writing prompt and the subject matter.	Demonstrate a basic understanding of the writing prompt and the subject matter.	Demonstrate a limited understanding of the writing prompt and subject matter. This reflection needs revision.	Demonstrate little or no understanding of the writing prompi and subject matter This reflection needs revision.
Use of Evidence and Personal Context	Use specific and convincing examples from the seminar to support claims in your own writing, making insightful and applicable connections between the topic and personal experience(s) or applications.	Use relevant examples from the seminar to support claims in your own writing, making connections between the topic and personal experience(s) or applications.	Use examples from the seminar to support most claims in your writing with some connections between the topic and personal experience(s) or applications.	Use incomplete or vaguely developed examples to only partially support claims with no connections made between the topic and personal experience(s) or applications.	No examples from the text are used and claims made in your own writing are unsupported and irrelevant to the topic at hand.
Language	Use stylistically sophisticated science language that is precise and engaging, with notable sense of voice, awareness of audience and purpose, and varied sentence structure.	Use language that is fluent, scientific and original, with evident a sense of voice, awareness of audience and purpose, and the ability to vary sentence structure.	Use basic but appropriate language, with a basic sense of voice, some awareness of audience and purpose and some attempt to vary sentence structure.	Use language that is vague or imprecise for the audience or purpose, with little sense of voice, and a limited awareness of how to vary sentence structure.	Use language that is unsuitable for the audience and purpose, with little or no awareness o sentence structure
Conventions	Demonstrate control of the conventions with essentially no errors, even with sophisticated language.	Demonstrate control of the conventions, exhibiting occasional errors only when using sophisticated language.	Demonstrate partial control of the conventions, exhibiting occasional errors that do not hinder comprehension.	Demonstrate limited control of the conventions, exhibiting frequent errors that make comprehension difficult.	Demonstrate little or no control of the conventions, making comprehension almost impossible.

