Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/</a> for a complete description of the rules governing curriculum & course changes.

## TRIAL COURSE OR NEW COURSE PROPOSAL

Department	veterinary	Medicine	Colleg	ge/School				<b>CNSM</b>
Prepared by	Aaron Kalla	ıs	Phone		474-19			
Email Contact	ajkallas@al	aska.edu	Facult	cy Contact	Arleigh		Reynolds	
1. ACTION L	DESIRED (CHECK O	NE):	Course		New C	Course	X	
2. COURSE I	DENTIFICATIO	N: Dept	BMSC	Course #	324	No. of	Credits	1
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OTHER FORMAT (specify)  Mode of delivery (specify									-		
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	Justification: Indicate why the cour example, the course follows a different				
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	If the course can be repeated for cre earned for this course?	dit, what is the maximum	number of credit hours tha	at may be	CREDITS
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		14, BMSC 224, BMSC	 C 314		
			allowed to enroll in the co	ourse.	
	SPECIAL RESTRICTIONS, VDITIONS				
16. P	PROPOSED COURSE FEES	NONE			
			dean to the Provost for fe	e approval? N	0
	Has the course been offered as special topi Yes/No If yes, give semester, year, course #, etc.:		ISC 393 (CRN #78840) 5)	& Spring 2017	BMSC 393
	S <b>TIMATED IMPACT</b> WHAT IMPACT, IF ANY, WILL TH	IIS HAVE ON BUDGET,	FACILITIES/SPACE, FA	CULTY, ETC.	
1	None				
Ha lib	BRARY COLLECTIONS ave you contacted the library collection de brary/media collections, equipment, and se plain why not.  No  Yes  x	welopment officer (kljensen@ rvices available for the propo	alaska.edu, 474–6695) with a osed course? If so, give date o	regard to the adeq f contact and reso	uacy of lution. If not,
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#### 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 II, will be the fourth 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 have 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.

		Date	
ignature, Chair, Program/Department of:	Veterinary M	edicine	
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gnature, Chair, College/School Curriculum	Council for:	CNSM	
		Date	
gnature, Dean, College/School of:	CNSM		
fferings above the level of approved prog	grams must be ap	proved in advance by the Prov	ost.
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— Bocusigned by: Patricia Doak		Date	February 6, 2017
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Offerings above the level of approved pr	rograms must be approve	ed in advance	by the Provost.
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		Date	
Signature of Provost (if above level of app	proved programs)		
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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 <u>denied</u> .
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:
lacksquare Title, $lacksquare$ number, $lacksquare$ credits, $lacksquare$ prerequisites, $lacksquare$ location, $lacksquare$ 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.
3. Course readings/materials:
☐ Course textbook title, ☐ author, ☐ edition/publisher.
$\square$ Supplementary readings (indicate whether $\square$ required or $\square$ recommended) and
lacksquare 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.
☐ Inclusion of catalog description is strongly recommended, and
Description in syllabus must be consistent with catalog course description.
_
5. $\square$ 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,
rivate instruction, studio instruction, values clarification, games, journal writing,
use of Blackboard, audio/video conferencing, etc.).
8. Course calendar:
lacksquare 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:
lacktriangle Specify course rules, including your policies on attendance, tardiness, class
participation, make-up exams, and plagiarism/academic integrity.
10. Evaluation:
lacktriangle Specify how students will be evaluated, $lacktriangle$ what factors will be included, $lacktriangle$ their
relative value, and $\square$ how they will be tabulated into grades (on a curve, absolute
scores, etc.)   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 th Disabilities Act (ADA), and ensures that UAF students have equal access to the
ampus 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.

# Spring 2018 BLaST Skills Seminar II: Project Communication and Advanced Skills

#### 1. Course Information

Title:

BLaST Research Skills Seminar

Number:

BMSC 324 (CRN \_\_\_\_\_)

Credit:

•

Prerequisites:

BMSC 214, BMSC 224, BMSC 314 or instructors approval

Location:

**AHRB 186** 

Meeting Time:

Tuesday 3:30 - 4:30

# 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 324 BLaST Skills Seminar II

1 Credits Offered Spring

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; advanced tools and techniques of research, project communication strategies as well as academic and career planning. Prerequisites: BMSC 214, BMSC 224, BMSC 314 or permission of instructor. 1+0+0.

BLaST Skills Seminar II, presents students with schedule of topics relative to academic and career planning, project communication, and advanced skills that are 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 including graduate students, faculty and staff 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 Academic planning strategies and pathways
- d. Present career and employment opportunities in science
- e. Support project communication methods
- 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, education and professional 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	Potential Topics	Targeted Skills/Objectives
1	Academic Planning	Enrichment and Extracurricular Engagement, College Exploration, Affordability Planning,
2	Career Planning	CV's, Resumes, Career Aspirations and Goals, Employment Statistics (DOL)
3	Poster Presentation Strategies	Formatting, Effective communication.
4	Oral Presentation Strategies	Effective communication strategies, Delivery methods.

5	Eukaryotic Cell Culturing	Eukaryotic requirements, Mammalian cell culturing, Aseptic technique, incubation
6	Cell Assays	Staining, Cell Plating, Live/Dead Assays, CFA,
7	Nucleic Acid Science	DNA/RNA Extraction methods, DNA/RNA Quantification
8	Advanced DNA and Cloning	Restriction digests, Transformation/transfections, Ligations, Validation methods, DGGE, ARISA
9	Sequencing and Bioinformatics	Sample Preparation, Sequencing processes, DNA Databases and analysis software, phylogenetic comparison
10	Advanced Proteomics	SDS PAGE, Western Blots, Protein quantification, protein databases
11	Elemental and Isotopic Analysis	C14, Stable Isotopes, Hg, Radio Labeling
12	Effective Model Organisms	Model organism use, proper selection, IACUC/IRB, General Care and Consideration, Sample Size,
13	Environmental Chemistry	Soil, water, air chemistry
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
<ul> <li>Attendance and Participation</li> </ul>	10	150	Each Session
<ul><li>Reflective Free-Writes</li><li>Topic Proposal</li><li>Topic Presentation</li></ul>	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 8<sup>th</sup> floor, 474-5314) will help you prepare and print your papers.

**Student Support Services** (http://www.uaf.edu/sssp/) (Gruening 5<sup>th</sup> 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. <a href="mailto:pchokenson@alaska.edu">pchokenson@alaska.edu</a> or visit Veterans Services on the web <a href="mailto:http://www.uaf.edu/veterans/">http://www.uaf.edu/veterans/</a> or <a href="mailto:http://www.facebook.com/UAFVA">http://www.facebook.com/UAFVA</a>

**Speaking Center** (email <u>fyspeak@gmail.com</u> 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:

- You may access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043;
- 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:	
Seminar topic:	
Seminar date:	
Questions:	
1. Explain the impacts this topic has on research? Why is it important?	
2. Describe <b>three</b> ideas or facts that you found most interesting from today's pleach changed your perspective, practice, or understanding.	resentation and how
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 <b>yo</b> researcher.	<u>u</u> in your future as a

# **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 prompt 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 of 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.

