### FORMAT 1

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

S	UBMITTED BY:										
	Department	<sup>/</sup> ildlife	ldlife		/School		Natural Sciences and Mathematics				
	Prepared by	Prepared by Robert H. Coker			Phone			907 474-6701			
	Email Contact	T COKCI (waiaska.c			Faculty Contac			Robert Coker			
	1. ACTION DES	: Tria	ıl Course	;	х	New	New Course				
	2. COURSE IDE	ENTIFICATION:	Dept	BI	OL	Course #	394	No. of 0	Credits	3	
			Course is intended mechanisms	Course is intended for junior and senior level students with a grasp of basic physiological nechanisms							
	3. PROPOSED (	COURSE TITLE:		Exercise Physiology							
	4. To be CROSS LISTED?  YES/NO		No	If y	If yes, Dept:		Con	urse #		]	
	NOTE: Cross-l	isting requires approval	of both departme	ents and d	eans involv	ed. Add line	s at end of fo	rm for additi	onal requi	ired signatures.	
	5. To be STACKI	5. To be STACKED?  YES/NO		If y	es, Dept.		(	Course #			
		t the appropria	liffer from each the appropriate level?:								
	undergraduate and this context, the con	wo different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, then for online – see URL at top of this page.  **CY OF OFFERING:**  As demand warrants						ındertaxed? In			
Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) — ODemand Warrants							rs) — or As				
	7. SEMESTER & YEAR OF FIRST OFFERING (AY2013-14 if approved by 3/1/2013; otherwise AY2014-15)										
•		Irs may not be compressible or school's curricum Committee.  MAT: ply)  IAT (specify)  ry (specify							eks must	ks to full	
9. CONTACT HOURS PER WEEK: 3 LECTURE LAB							-		CTICUM		
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 of lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with syllabus. See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelines-for-computing-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelines-for-computing-/</a> for more inform number of credits.								t. 1600 minutes natch with the			
	OTHER HOURS	(specify type)									

10. <u>COMPLETE</u> CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, credit distribution, credit (50 words or less if possible):	ross-listings and/or
Example of a complete description:	
FISH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on strategies utilized for the material freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F4	ENGL F211X or
Physiological responses and adaptation to exercise in humans,, emphasizing en metabolism, adipose and lean tissue, central and peripheral components of oxid metabolism, and the environmental influences on these parameters. Prerequisit and 214X; or BIOL 310; oxpermission of instructor. (3+0)	lative
11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council t	to apply S or H
classification appropriately; otherwise leave fields blank.  H = Humanities S = Social Sciences	11 3
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:	
	accalaureate Core
11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symb	hal will he added in the
printed Catalog, and flagged in Banner.  YES  NO x	ooi wiii be uuueu in ine
YES NO X	oot wat be uuted in the
	oot wat be tauted in the
YES NO X  12. COURSE REPEATABILITY:	oot wat be daded in the
Is this course repeatable for credit?  Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).	
YES NO x  12. COURSE REPEATABILITY:  Is this course repeatable for credit? YES NO x  Justification: Indicate why the course can be repeated (for	TIMES CREDITS
Is this course repeatable for credit?  Is this course repeatable for credit?  VES  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?  If the course can be repeated for credit, what is the maximum number of credit hours that may be	TIMES CREDITS
Is this course repeatable for credit?  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?  If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?  If the course can be repeated with variable credit, what is the maximum number of credit hours that	TIMES CREDITS CREDITS
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1	7. PREVIOUS HISTORY							
	Has the course been offered as special topics or trial course previously?  Yes/No  No							
	If yes, give semester, year, course #, etc.:							
1	18. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.							
	This course will require classroom and laboratory space.							
1	9. 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 Current library holdings are sufficient, but improvements will be requested.							
20	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)							
	This course will contribute to the Biology and Wildlife curriculum by providing a course focused on human health, a growing part of the curriculum and an area of high student interest. The course will likely have little impact on other departments.							
2	1. POSITIVE AND NEGATIVE IMPACTS							
	Please specify <b>positive and negative</b> impacts on other courses, programs and departments resulting from the proposed action.							
	The positive impact of the course will be to enhance the understanding of work physiology across in the Biological Sciences. No negative impacts are anticipated.							
J	USTIFICATION 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.							
	The justification for this course is based on the need to provide upper division credit that is closely linked to the biomedical field for students in the Biological Sciences. For example, students who take the Human and Anatomy Physiology courses may be interested in furthering their interest in metabolic regulation, skeletal muscle metabolism and pulmonary function, and applying that knowledge towards extreme environmental conditions. While previously unavailable, students will now be able to act on their interests, potentially providing greater direction in their career choices.							

APPROVALS: Add additional signature lines as needed.					
	Date				
Signature, Chair, Program/Department of:					
	Date				
Signature, Chair, College/School Curriculum Council for:					
	Date				
Signature, Dean, College/School of:	Bute				
Offerings above the level of approved programs must be approved in advance by the Provost.					
	Date				
Signature of Provost (if above level of approved programs)	Bute				
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION T	TO THE GOVERNANCE OFFICE				
	Date				
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAAC					
Core Review SADAC					
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)					
	Date				
Signature, Chair, Program/Department of:					
	Date				
Signature, Chair, College/School Curriculum Council for:	200				
	Date				

### 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:

qTitle, q number, qcredits, qprerequisites, q location, q meeting time (make sure that contact hours are in line with credits).

### 2. Instructor (and if applicable, Teaching Assistant) information:

q Name, q office location, q office hours, q telephone, q email address.

## 3. Course readings/materials:

- q Course textbook title, q author, q edition/publisher.
- q Supplementary readings (indicate whether q required or q recommended) and
- q any supplies required.

## 4. Course description:

- q Content of the course and how it fits into the broader curriculum;
- q Expected proficiencies required to undertake the course, if applicable.
- q Inclusion of catalog description is strongly recommended, and
- q Description in syllabus must be consistent with catalog course description.

## 5. q Course Goals (general), and (see #6)

## 6. q Student Learning Outcomes (more specific)

#### 7. Instructional methods:

q 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:

q 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:

q Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

### 10. Evaluation:

q Specify how students will be evaluated, q what factors will be included, q their relative value, and q how they will be tabulated into grades (on a curve, absolute scores, etc.) q Publicize UAF regulations with regard to the grades of "C" and below <u>as applicable</u> 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": <a href="http://www.uaf.edu/files/uafgov/Info-to-Publicize-C">http://www.uaf.edu/files/uafgov/Info-to-Publicize-C</a> Grading-Policy-UPDATED-May-2013.pdf

## 11. Support Services:

q 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.** <a href="http://www.uaf.edu/disability/">http://www.uaf.edu/disability/</a> 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.

q 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

Exercise Physiology 3 credits (3+0) Biology 394 Fall 2014

<u>Professor:</u> Robert H. Coker, PhD, FACSM <u>Teaching Assistant:</u> Tyler Keshel, MS Office: 226 Arctic Health Research Building

Office Hours: 10:00 AM-12:00 PM, and by appointment

<u>Overview:</u> Basic mammalian anatomy and physiology is a core competency that is necessary for the study of exercise physiology. The primary focal points of this course are directed at the neural, cardiorespiratory, skeletal, muscular systems, and how they respond and/or adapt to the stress of acute and chronic exercise. The complex interaction between environmental stressors on exercise performance will also be covered. This course will provide a solid foundation for advanced study in the field of exercise physiology.

<u>Catalog Description:</u> Physiological responses and adaptation to exercise in humans, emphasizing energy metabolism, adipose and lean tissue, central and peripheral components of oxidative metabolism, and the environmental influences on these parameters.

<u>Prerequisites:</u> 1 year of Human Anatomy and Physiology and 1 semester of Chemistry. If a student enrolls in the course without these prerequisites, they will be withdrawn from the course.

## Course Objectives:

- 1. Demonstrated knowledge of the acute responses and chronic adaptations to aerobic and resistance exercise.
- 2. Demonstrated knowledge of the physiological assessments for muscular and cardiorespiratory responses to exercise.
- 3. Introduction to research methods.

<u>Required Textbook:</u> Powers S, and Howley E, Exercise Physiology: Theory and Application to Fitness and Performance, Eighth Edition.

<u>Instructional Methods:</u> A lecture and discussion based model will be used in this course. Students will be given the opportunity to answer questions posed by the Professor. As part of the requirements of the course, students will also make a one brief presentation of a research article that specifically relates to the current section of the course (ie., respiratory, muscle, etc.).

<u>Grading:</u> Student performance will be based on three primary components: 1) exams, 2) quizzes, and 3) oral presentation. The sum of these three components = 100 points.

*Exams:* Four exams will be given during the course, including a final exam. One of these exams will be administered and graded prior to mid-term so that students can accurately assess their initial performance in the course. Each exam will be worth 20 possible points.

Quizzes: Ten quizzes will be given during or following lecture. Each quiz will be worth one point, and is designed to promote attendance and reinforce acquisition of core objectives.

*Oral Presentation:* Worth 10 points towards the final grade, each student will present one research article in the field of exercise physiology. This article will be specifically relevant to the section discussed. Students will cover the rationale, methods, results and discussion sections of the article.

<u>Calculation of Grade:</u> In brief, A = 90-100, B = 80-89, C = 70-79, D = 65-69, F = 64 or below. Grades will represent an average of course requirements.

Honor Code and Plagiarism: Students will be expected to uphold the UAF standard of conduct for students relating to academic dishonesty. Students will assume full responsibility for the content and integrity of the academic work submitted by them during the course. For the student code or additional information, please use the following URL <a href="http://www.uaf.edu/catalog/current/academics/regs3.html">http://www.uaf.edu/catalog/current/academics/regs3.html</a>

<u>UAF Disabilities Services:</u> The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. I will work with the Office of Disabilities Services (208 WHIT, 474-XXXX) to provide 474-5655 reasonable accommodation to students with disabilities. \*\* If students require any assistance due to documented disability, please make the Professor award of this important need by the 2nd week of semester, and they will make the necessary accommodations.

## Class Schedule

09/09/14 Chapter 2 Control of the Internal Environment 09/11/14 Chapter 3 Bioenergetics 09/16/14 Chapter 4 Exercise Metabolism  09/18/14 EXAM 1 09/23/14 Chapter 5 Hormonal Responses to Exercise 09/25/14 Chapter 6 Measurement of Work, Power, and Energy Expend 09/30/14 Chapter 7 The Nervous System: Structure and Control of Mo 10/02/14 Chapter 8 Skeletal Muscle: Structure and Function 10/07/14 EXAM 2 10/09/14 Chapter 9 Circulatory Adaptations to Exercise 10/14/14 Chapter 10 Respiration during Exercise 10/16/14 Chapter 11 Acid Base Balance during Exercise 10/21/14 Chapter 12 Temperature Regulation 10/23/14 Chapter 13 The Physiology of Training: Effect on VO2 max, performance, homeostasis and strength	
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1030/14 Chapter 14 Patterns in Health and Disease: Epidemiology and Physiology	I
11/04/14 Chapter 15 Work Tests to Evaluate Cardiorespiratory Fitness	
11/06/14 Chapter 16 Exercise Prescriptions for Health and Fitness	
11/11/14 Chapter 17 Exercise for Special Populations	
11/13/14 Chapter 18 Body Composition and Nutrition for Health	
11/18/14 Chapter 19 Factors Affecting Performance	
11/20/14 Chapter 20 Work Tests to Evaluate Performance	
11/25/14 Chapter 21 Training for Performance	
Training for Female Athlete, Children, and Special Populations	
12/04/14 Chapter 23 Nutrition, Body Composition, and Performance	
12/09/14 Chapter 24 Exercise and the Environment	
12/11/14 Chapter 25 Ergogenic Aids	
TBA EXAM 4 - Final	