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.

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BMITTED BY:									
Department	Museum / Bi	o Wildlife		Colle	ge/School				CNSM
Prepared by	Derek Sikes	-		Phone					474-6278
Email Contact	dssikes@alas	ka.edu		Facul Conta	_		,	D	erek Sikes
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course constitutes a Major Cours	
LETTER: PASS/FAIL:	<u>x</u>
RESTRICTIONS ON ENROLLMENT (if any)	
14. PREREQUISITES	
These will be required before t	the student is allowed to enroll in the course.
15. SPECIAL RESTRICTIONS, CONDITIONS	none (but must be able to travel on foot in "the field")
16. PROPOSED COURSE FEES \$	
Has a memo been submitted thr	ough your dean to the Provost for fee approval? Yes/No
17. PREVIOUS HISTORY	
Has the course been offered as a previously? Yes/No	special topics or trial course yes
If yes, give semester, year, course #, etc.:	Summer sessions F195, July 24-26, 2009; July 30, 31-Aug 1, 2010; July 8-10 2011, July 6-8 2012
18. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS I	HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
Lab/ classroom Murie 302 will be used f July each summer. A sufficient number during this time period.	or from 6pm Friday to 6pm Sunday during late June or early of dissecting microscopes for the students will be required
474-6695) with regard to the adec	ollection development officer (kljensen@alaska.edu, quacy of library/media collections, equipment, and sed course? If so, give date of contact and not.
A244 1 1 1 1 1 1 1 1 1	is not needed for this course.
·	
20. IMPACTS ON PROGRAMS/DEPTS What programs/departments will Include information on the Programs/	l be affected by this proposed action? Departments contacted (e.g., email, memo)
Biology and Wildlife.	
21. POSITIVE AND NEGATIVE IMPACTS Please specify positive and negate departments resulting from the p	tive impacts on other courses, programs and roposed action.

I teach Entomology (Bio 406) but there is inadequate time to spend in the field during the school year. This summer sessions course allows for field time with students. The 9-15 students enrolled each time this course was offered from 2008-2012 demonstrates an interest / demand for the course. Another benefit is

the production of high-quality specimens to augment the Entomology teaching collection (benefiting Biology & Wildlife) and the University of Alaska Museum. I am unaware of any negative impacts (other than minor wear & tear on microscopes and lab equipment such as forceps).

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.

There is a demand in the Fairbanks community for a summer sessions Entomology Course (as reported by requests submitted to summer sessions from the public). I took Dr. Gary Laursen's summer sessions 'Introduction to Macro & micro mushroom identification' course and modeled this course on his format. It is an excellent way to introduce students to Field Entomology. I teach Entomology (Bio 406) but there is inadequate time to spend in the field during the school year. This summer sessions course allows for field time with students.

C12	Date Jan 14,2012	_
Signature, Chair, Program/Department of: Biblos	fildia has y	-
Clubsen	Date 1/25/2012	
Signature Chair, College/School Curriculum Council for:	CNSM	
- faulliby	Date 1/28/13	
Signature, Dean, College/School and	WLay	
Signature of Provost (if above level of appro	Date	
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Signature, Chair, College/School Curriculum Council for:	
	Date

AN INTRODUCTION TO FIELD ENTOMOLOGY

BIOL F195, One Credit New number to be assigned. UAF Campus, Summer

COURSE INFORMATION

Title: An Introduction to Field Entomology

Number: Biology F195
Credits: 1 with P/F grading

Prerequisites: none

Location: University of Alaska Fairbanks Campus and Vicinity, Murie 302

Meeting Times 6-9 p.m. Fri, & 9a.m.-6 p.m. Sat. & Sun.

Meeting Dates: 28, 29, 30 June 2013 Lecture / Lab: 10h lecture, 9h lab

INSTRUCTOR: Dr. Derek S. Sikes, Curator of Insects, Associate Professor of

Entomology

University of Alaska Museum, 907 Yukon Dr., UAF Tel. (907) 474-6278 email: dssikes@alaska.edu

Office hours available by appointment

COURSE READINGS / MATERIALS: Required: Collet, D. 2006. Insects of South-Central Alaska. Kenai Watershed Forum.

Recommended: Gibb, T. J. & C. Y. Oseto. 2006. Arthropod collection and identification: Field and laboratory techniques. Academic Press, 311 pp.

Hudson, J., Kathy Hocker & Robert Armstrong. 2012. Aquatic Insects in Alaska. 144 pages, 8.5" x 11", 294 color photographs, glossary, bibliography, index. Published by Nature Alaska. ISBN 978-0-939431-38-0

COURSE DESCRIPTION: An introduction to field entomological techniques. Emphasized will be professional procedures to collect and process (sort, mount, georeference & label) non-marine arthropods. The skills necessary to identify most groups to Order will be taught. Students will create a collection from which specimens will be chosen for the University of Alaska Museum Insect Collection and the Teaching Collection.

COURSE GOALS & STUDENT LEARNING OUTCOMES:

- 1. To learn basic collection and specimen preparation techniques
 - net types and uses
 - aspirators and vials / killing jars
 - trapping methods, e.g. pitfall traps, Malaise traps, Berlese / Winkler funnels
 - pin, point, paper, pen, glass vial types, sources, preservation dry vs wet
- 2. To understand the roles insects play in Alaskan ecosystems

- trophic levels
- ecological relationships (predators, herbivores, parasites,

pollinators, decomposers, anthrophilic, etc.)

- habitat preferences (terrestrial, aquatic, soil, etc.)
- 3. To contribute to Alaskan Entomological research endeavors
 - provide professionally mounted & georeferenced specimens to the UA Museum Insect Collection

INSTRUCTIONAL METHODS: An introductory lecture covering insect diversity will be combined with hands-on, instructor-lead, field work to learn methods of sampling insects in the wild. Field captured insects will be brought back to the lab and processed (mounted and identified). The instructor will be constantly available to answer questions during the course.

COURSE CALENDAR:

Friday Introductions and enrollment

Lecture (3hours)

Insect Evolutionary Diversity

introduction to major insect groups

Non insect arthropods - Arachnida, Myriapoda

Apterygota Pterygota

Paleaoptera

Neoptera

Polyneoptera Paraneoptera

Endopterygota

Insect Ecological Diversity, Aquatic Insects, Herbivores, Predators, Fungivores,

Parasites, Parasitoids, Detritivores

HOMEWORK: read Collet & be prepared to ask questions discuss

Saturday

UAF LAB 9AM -10AM -lecture on label data & geocoordinates

MUSEUM 10-11AM tour of Insect Collection

FIELD TRIP: noon – 3PM, <u>Creamer's Field</u> field gear – tools of the trade lecture

BRING packed lunch

leaf litter sifting & Berlese extraction

Malaise trap & pitfall trap

UAF LAB: 3:15-6:15, Lecture on mounting and identification of

specimens caught

field labeling vs. final labeling collection care and maintenance

UAF LAB: 9AM – 10AM- lecture on aquatic insects

FIELD TRIP 10:30AM-3PM,

"Peat Ponds" Goldstream x Murphy Dome Rd

aquatic insects lecture

BRING packed lunch

UAF LAB: 3:15-6:15, mounting and identification of

specimens caught

Sunday

COURSE POLICIES: Preferably students will attend 100% of the 15 hours of instruction. To receive a pass for this course students must attend at least 60% of the 15 hours of instruction and produce high-quality prepared insect specimens that will be donated to the UA Museum. Knowingly falsifying data (on specimen labels) will result in an automatic "F" for the class.

EVALUATION: Evaluation will be based on attendance and participation in laboratory and field settings in addition to the completion of a small insect collection that will demonstrate ability to prepare, identify, and describe the basic ecology at least 20 Insect orders and/or families.

SUPPORT SERVICES: The instructor and course assistants will be available outside of class to help any students seeking additional time with the material.

DISABILITIES SERVICES: 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. We will work with the Office of Disabilities Services (203 Whit., 474-7043) to provide reasonable accommodation to students with disabilities. Realize, however, that this is a "field" course and all students must be prepared to meet those challenges.