Submit original with signatures + 1 copy + electronic copy to UAF Governance. See http://www.uaf.edu/uafgov/faculty/cd for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

<table>
<thead>
<tr>
<th>Department</th>
<th>Biology and Wildlife</th>
<th>College/School</th>
<th>CNSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>Mark Wipfli</td>
<td>Phone</td>
<td>474-6654</td>
</tr>
<tr>
<td>Email/Contact</td>
<td><a href="mailto:mwipfli@alaska.edu">mwipfli@alaska.edu</a></td>
<td>Faculty/Contact</td>
<td>Mark Wipfli</td>
</tr>
</tbody>
</table>

1. ACTION DESIRED
(CHECK ONE):

- [ ] Trial Course
- [ ] New Course

2. COURSE IDENTIFICATION:

<table>
<thead>
<tr>
<th>Dept</th>
<th>BIOL</th>
<th>Course #</th>
<th>665</th>
<th>No. of Credits</th>
<th>2</th>
</tr>
</thead>
</table>

Justify upper/lower division status & number of credits:
This course is geared towards graduate students because of course content and speed at which material is covered. Two credits are justified because of the level of taxonomic resolution taught in the class.

3. PROPOSED COURSE TITLE:

Aquatic Entomology

4. CROSS LISTED?

YES/NO

(Requires approval of both departments and deans involved. Add lines at end of form for such signatures.)

5. STACKED?

YES/NO

If yes, Dept:

6. FREQUENCY OF OFFERING:

Every Fall

(Every or Alternate) Fall, Spring, Summer — or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING (if approved):

2010 (I taught this course as a special topics course in Fall 2008)

8. COURSE FORMAT:

NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

<table>
<thead>
<tr>
<th>COURSE FORMAT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(check one)</td>
</tr>
</tbody>
</table>

OTHER FORMAT (specify)

Mode of delivery (specify lecture, field trips, labs, etc):

Lectures, labs, field trips

9. CONTACT HOURS PER WEEK:

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>xx</th>
<th>6 weeks to full semester</th>
</tr>
</thead>
</table>

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 in non-science lab=1 credit. 2400-800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgov/faculty/cd/credits.html for more information on number of credits.

OTHER HOURS (specify type):

Some lab sessions (early in semester) will be devoted to local field trips.

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

BIOL 665. Aquatic Entomology. 2 Credits. Aquatic invertebrate taxonomy, mostly to the family level, and ecology. Includes field trips early in the semester to learn collecting techniques and habitats. Prerequisite: Graduate standing or permission of instructor. (Cross-listed with FISH 665.) (1+3)

11. COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

<table>
<thead>
<tr>
<th>H = Humanities</th>
<th>N = Natural Science</th>
<th>S = Social Sciences</th>
</tr>
</thead>
</table>

Will this course be used to fulfill a requirement for the baccalaureate core? 

IF YES, check which core requirements it could be used to fulfill:

<table>
<thead>
<tr>
<th>O = Oral Intensive, Format 6</th>
<th>W = Writing Intensive, Format 7</th>
<th>Natural Science, Format 8</th>
</tr>
</thead>
</table>
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?

13. **GRADING SYSTEM:**

LETTER: [X] 
PASS/FAIL: 

14. **PREREQUISITES**

Graduate standing or permission of instructor. 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**

Students must be able to safely wade in streams and wetlands.

16. **PROPOSED COURSE FEES**

Has a memo been submitted through your dean to the Provost & VCAS for fee approval? [ ] Yes/No

Yes

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.: Fall, 2008, BIOL/FISH 693, 2 credit, letter grade

18. **ESTIMATED IMPACT**

**WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.**

Space in Irving I was used last time the course was offered, for 4 hours every Wed, 1-5pm (1 hr lecture, 3 hr lab). An equivalent lab space will be required again. Existing Leica teaching scopes recently purchased by B&W for this and other courses will be used. Depending upon class size, one or more university fleet vehicles will be needed for field trips (same arrangement as the previous special-topics offering) for an estimated student fee of $75.00. No anticipated impacts on faculty are expected.

19. **LIBRARY COLLECTIONS**

Have you contacted the library collection development officer (ftjh@uaf.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? [ ] Yes/No

If yes, give date of contact and resolution. [ ] Yes/No

Contacted Karen Jensen and Anne Christie on Oct 9, 2009, about placing texts on reserve. It was agreed that texts will be placed on hold in the BioSciences Library for students taking this course.

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)

Programs/Depts that may be impacted are Dept of Biology and Wildlife and School of Fisheries and Ocean Sciences, via providing a course that has not been offered in some time in the Dept of Biology and Wildlife (due to faculty retirements). Specifically, discussions with Derek Sykes (Oct '09) indicated that his courses (Invert Zool 305 and Entomology 406) and my new course will compliment each others' nicely because of their generally related topics but vastly different coverages in the courses, positively affecting the curricula. The only other course remotely related is Stream Ecology 483, taught by Jay Jones, which specifically covers stream processes.

21. **POSITIVE AND NEGATIVE IMPACTS**

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

Expected positive impacts on both fisheries and biology, as this course is often popular with students studying aquatic biology (at other universities), but has not been offered for many years at UAF. Students will have the opportunity to learn aquatic entomology: family-level taxonomy, ecology, and biology. This will be a new learning opportunity students have not had at UAF for many years, but according to Rich Boone (Dept of Biology and Wildlife chair), is certainly needed. No negative impacts are anticipated as this course will offer a specialized learning opportunity for students interested in
12. COURSE REPEATABILITY:
Is this course repeatable for credit? YES 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?

13. GRADING SYSTEM:
LETTER: XX PASS/FAIL:

14. PREREQUISITES
RECOMMENDED
Graduate standing or permission of instructor.
These will be required before the student is allowed to enroll in the course.
Classes, etc. that student is strongly encouraged to complete prior to this course.

15. SPECIAL RESTRICTIONS, CONDITIONS
Students must be able to safely wade in streams and wetlands.

16. PROPOSED COURSE FEES
Has a memo been submitted through your dean to the Provost & VCAS for fee approval? Yes/No
$75.00
Yes

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.: Fall 2008, BIOL/FISH 696, 2 credit, letter grade

18. ESTIMATED IMPACT
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aquatic entomology, complimenting existing courses and programs.

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.

This course is important simply because it provides an otherwise lacking subject matter for students at UAF. Many biology and fisheries students lack but benefit from an understanding of the biological (invertebrate) communities associated with freshwater ecosystems, especially as they relate to their topic of study (in many freshwater fisheries or aquatic biology related fields). For example, waterfowl or fish ecology projects that deal with diet studies or food webs require understanding of the invertebrates, food webs, and their biology and ecology that are associated with the species and the freshwater habitats of study. Because of its specialized nature, this course will fill a specific subject matter gap that currently exists at UAF, at the same time compliment selected other courses. A version of this course was offered years ago by Dr. Mark Oswood in Biology and Wildlife, before he retired and left UAF.
APPROVALS:

Signature, Chair, Program/Department of: ____________________________ Date ____________________________

Signature, Chair, College/School Curriculum Council for: ____________________________ Date ____________________________

Signature, Dean, 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 TO THE GOVERNANCE OFFICE

Signature, Chair, UAF Faculty Senate Curriculum Review Committee  
Date ____________________________

ADDITIONAL SIGNATURES: (If required)

Signature, Chair, Program/Department of: ____________________________ Date ____________________________

Signature, Chair, College/School Curriculum Council for: ____________________________ Date ____________________________

Signature, Dean, College/School of: ____________________________ Date ____________________________
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APPROVALS:

Signature, Chair, Program/Department of: [Signature]  
Date: 01/06/10

Signature, Chair, College/School Curriculum Council for: [Signature]  
Date: 01/06/10

Signature, Dean, College/School of: [Signature]  
Date: 01/06/10

Signature of Provost (if applicable)  
Date: [Signature]  

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Signature, Chair, UAF Faculty Senate Curriculum Review Committee  
Date: [Signature]  

### ADDITIONAL SIGNATURES: (If required)

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Date</th>
</tr>
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<tr>
<th>Signature, Chair, College/School Curriculum Council for:</th>
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<tr>
<td>[Signature, Chair, College/School Curriculum Council not legible]</td>
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<table>
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<td>[Signature, Dean, College/School not legible]</td>
<td>2/11/10</td>
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with the Office of Disabilities Services (203 WHIT, 474-7043) to provide reasonable accommodation to students with disabilities.
Aquatic Entomology
BIOL/FISH 665; offered every fall

Credits: 2, Letter grade
Prerequisites: Graduate standing or permission of instructor
Location: 207 Irving I
Meeting time: Wednesdays, Lecture 1-1:50p, Lab 2-5pm

Instructor information: Mark Wipfli, IAB
Office location: 138 Arctic Health
Office hours: T, R, 10-11am or by appt.
Telephone: 474-6654
Email: mwipfli@alaska.edu

Course readings/materials: Aquatic Entomology, by W. Patrick McCafferty.

Supplementary readings: An Introduction to the Aquatic Insects of North America, by Merritt and Cummins.

Course description: 665 Aquatic Entomology 2 credit. Course content will focus on aquatic invertebrate taxonomy and ecology, particularly from Alaska streams and wetlands. There will be organized field trips near campus during the first several weeks of the semester where students will learn field techniques for locating and collecting aquatic invertebrates. The remaining meetings will involve instruction on the identification of the important groups (family-level taxonomy) of aquatic invertebrates, and their ecology and biology. Students will be required to develop their own aquatic invertebrate collections. Letter grades will be based on completeness and accuracy of collections, plus lab and lecture mid-term and final exams.

Course goals: Provide students with a working knowledge of the taxonomy (field and lab IDs to the Family level) and ecology of aquatic (wetland and stream) invertebrates, with special emphasis on invertebrates of Alaska systems. Specific learning outcomes - students will learn 1) where and how to collect aquatic insects, 2) how to identify larval aquatic insects to the family level, 3) learn how to identify Orders of adult aquatic insects, 4) how to prepare an aquatic insect collection, 5) habitat-taxon associations, and 6) family level functional feeding groups.

Instructional methods: One hour of lecture, three hours laboratory each week. Laboratory meetings will involve field trips, biological collections and taxonomy. Lectures before each lab period will teach key taxonomic characteristics, and invertebrate ecology and biology. There will be a $75/student lab fee charge to cover rental vehicle costs and insurance for field trips.

Course calendar: There will be one 1-hr lecture and one 3-hr lab per week. The first four sessions of the term (weeks 1-4) will consist of an introductory session and up to four field trips where students will be taught invertebrate collecting techniques, including actual collections at nearby field sites. The rest of the term students will learn to identify aquatic invertebrates to the Family level.

Course policies: Attendance is required. Pre-excused absences are permitted.

Evaluation: Mid-term and final exams will be given in both lecture and lab. Letter grade will be determined from field collections (20%), and scores on four exams (20% each) (100 points each). Grading will be A+ >95%, A 92-94%, A- 90-91%, B+ 87-89%, B 84-86%, B- 80-83%, C+ 77-79%, C 74-76%, C- 70-73%, D+ 67-69%, D 64-66%, D- 60-63%, F <60%.

Support Services: Negotiated upon request.

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. The instructor will work
Aquatic Entomology BIOL/FISH 665 course calendar

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Lab</th>
<th>Reading assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overview of course</td>
<td>Overview of lab content and expectations</td>
<td>Chap 2-4 McCafferty, Chap 1 &amp; 2 Merritt and Cummins</td>
</tr>
<tr>
<td>2</td>
<td>Collecting techniques</td>
<td>Field trip</td>
<td>Chap 2-4 McCafferty, Chap 1 &amp; 2 Merritt and Cummins</td>
</tr>
<tr>
<td>3</td>
<td>Collecting techniques</td>
<td>Field trip</td>
<td>Chap 2-4 McCafferty, Chap 1 &amp; 2 Merritt and Cummins</td>
</tr>
<tr>
<td>4</td>
<td>Collecting techniques</td>
<td>Field trip</td>
<td>Chap 6 McCafferty, Chap 9 Merritt and Cummins</td>
</tr>
<tr>
<td>5</td>
<td>Classification and general ecology of the Orders</td>
<td>Order level identifications</td>
<td>Chap 7 McCafferty, Chap 11 Merritt and Cummins</td>
</tr>
<tr>
<td>6</td>
<td>Classification and general ecology of Ephemeroptera</td>
<td>Family level taxonomy of Ephemeroptera</td>
<td>Chap 8 McCafferty, Chap 12 Merritt and Cummins</td>
</tr>
<tr>
<td>7</td>
<td>Classification and general ecology of Odonata</td>
<td>Family level taxonomy of Odonata</td>
<td>Chap 9 McCafferty, Chap 14 Merritt and Cummins</td>
</tr>
<tr>
<td>8</td>
<td>Classification and general ecology of Plecoptera</td>
<td>Family level taxonomy of Plecoptera</td>
<td>Chap 10-12 McCafferty, Chap 15-16 Merritt and Cummins</td>
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<tr>
<td>9</td>
<td>Classification and general ecology of Hemiptera, Megaloptera, and Neuroptera</td>
<td>Family level taxonomy of Hemiptera, Megaloptera, and Neuroptera</td>
<td></td>
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<tr>
<td>10</td>
<td>Mid-term exam</td>
<td>Mid-term exam</td>
<td>Chap 14-15 McCafferty, Chap 17, 19 Merritt and Cummins</td>
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<tr>
<td>11</td>
<td>Classification and general ecology of Trichoptera and Lepidoptera</td>
<td>Family level taxonomy of Trichoptera and Lepidoptera</td>
<td>Chap 13 McCafferty, Chap 20 Merritt and Cummins</td>
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<tr>
<td>12</td>
<td>Classification and general ecology of Coleoptera</td>
<td>Family level taxonomy of Coleoptera</td>
<td>Chap 16 McCafferty, Chap 22 Merritt and Cummins</td>
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<tr>
<td>13</td>
<td>Classification and general ecology of Diptera (Part 1)</td>
<td>Family level taxonomy of Diptera (Part 1)</td>
<td>Chap 16 McCafferty, Chap 22 Merritt and Cummins</td>
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<tr>
<td>14</td>
<td>Classification and general ecology of Diptera (Part 2)</td>
<td>Family level taxonomy of Diptera (Part 2)</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Final exam</td>
<td>Final exam</td>
<td></td>
</tr>
</tbody>
</table>


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