### TRIAL COURSE OR NEW COURSE PROPOSAL

**SUBMITTED BY:**
- **Department:** Fisheries
- **Prepared by:** Courtney Carothers
- **Email Contact:** carothers@sfos.uaf.edu
- **College/School:** SFOS
- **Phone:** 907-474-5329
- **Faculty Contact:** Courtney Carothers

**1. ACTION DESIRED**
(CHECK ONE):
- [ ] Trial Course
- [x] New Course

**No. of Credits** 3

**2. COURSE IDENTIFICATION:**
- **Dept:** FISH
- **Course #** 412
- **Course #**

**3. PROPOSED COURSE TITLE:** Human-Environment Research Methods

**4. CROSS LISTED?**
- **YES/NO** Yes
- **if yes, Dept:** ANTH
- **Course #** 412

**5. STACKED?**
- **YES/NO** No
- **if yes, Dept:**
- **Course #**

**6. FREQUENCY OF OFFERING:**
- Alternate Spring
  - (Every or Alternate) Fall, Spring, Summer — or As Demand Warrants
  - **Spring 2010**

**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.

**COURSE FORMAT:**
- [x] Lecture, discussion, computer-based labs
- [ ] 1 LECTURE hours/week
- [ ] 2 LAB hours/week
- [ ] 3 PRAC hours/week
- [ ] 4 6 weeks to full semester
- [ ] 5

**9. CONTACT HOURS PER WEEK:**
- [ ] 3 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/ualgov/faculty/cd/credits.html for more information on number of credits.

**OTHER HOURS (specify type)**

**10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):**
FISH 412/ANTH 412, 3 credits, Human-Environment Research Methods
Overview of qualitative and quantitative social science methods for studying human-environment relationships. Introduction to research ethics, research design, data collection, data analysis, and data reporting. Specific methods and data analysis techniques include: interviews, text analysis, surveys, scales, cognitive anthropology and ethnology, social networks, behavioral observation, and visual methods. Provides hands-on training in data collection and data analysis software.
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.)

H = Humanities  N = Natural Science  S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core?  YES  NO

IF YES, check which core requirements it could be used to fulfill:
O = Oral Intensive, Format 6  W = Writing Intensive, Format 7  Natural Science, Format 8

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?
TIMES

If the course can be repeated with variable credit, what is the maximum number of credits
hours that may be earned for this course?
CREDITS

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

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES
Junior or senior standing; FISH 411, 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

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

17. PREVIOUS HISTORY
Has the course been offered as special topics or trial course previously?  Yes/No
If yes, give semester, year, course #, etc.

18. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
No expected impact.

19. LIBRARY COLLECTIONS
Have you contacted the library collection development officer (ilikj@uaf.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  07/31/2009; Karen Jensen

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 is proposed to be cross-listed with Anthropology.

21. POSITIVE AND NEGATIVE IMPACTS
Please specify positive and negative impacts on other courses, programs and departments resulting from the
proposed action.

This proposed new course will provide an overview of social science research methods of interest to a
diverse range of students in social and environmental fields. This course contributes to the new B.A.
degree in Fisheries and provides a broad methods overview to complement course offering in
Anthropology. Students will learn methods and data analysis software currently not being taught in the
University.
No negative impacts are expected.

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 will be a required course of the newly approved B.A. degree in Fisheries. The course will also strengthen the Fisheries B.S. offerings, and provide Fisheries graduate students with a basic overview of human-environment research methodology. Structured as an overview course, this new offering will expose students in Fisheries, Anthropology, and a wide range of departments to common and emerging social science research methods and analysis techniques.

APPROVALS:

Signature, Chair, Program/Department of: ____________________________ Date 8/12/09

Signature, Chair, College/School Curriculum Council for: SFOS Curriculum Committee Date 8/25/09

Signature, Dean, College/School of: ____________________________ Date 8/30/09

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

ADDITIONAL SIGNATURES: (if required)

Signature, Chair, Program/Department of: ____________________________ Date 8/31/09

Signature, Chair, College/School Curriculum Council for: CLA Date 9/10/09

Signature, Dean, College/School of: ____________________________ Date 9/10/09
ATTACH COMPLETE SYLLABUS (as part of this application).

Note: syllabus must follow the guidelines discussed in the Faculty Senate Guide http://www.uaf.edu/afsgw/faculty/cd/syllabus.html. The department and campus wide 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 change will 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.

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

4. **Course description:**
   - Content of the course and how it fits into the broader curriculum;
   - 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. **Course Goals (general) and Student Learning Outcomes (more specific)**

6. **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.).

7. **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.

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

9. **Evaluation:**
   - Specify how students will be evaluated, what factors will be included, their relative value, and how they will be tabulated into grades (on a curve, absolute scores, etc.)

10. **Support Services:**
    - Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

11. **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.
    - State that you will work with the Office of Disabilities Services (203 WHIT, 474-7043) to provide reasonable accommodation to students with disabilities.”
FISH 412: Human-Environment Research Methods

Instructor: Dr. Courtney Carothers
Office: 207B O'Neill Building
School of Fisheries and Ocean Sciences
University of Alaska, Fairbanks
Class Time: T/Th 3:30-5:00

Course Website: Blackboard
https://classes.uaf.edu/webapps/login/
Phone: 907-474-5329
Email: carothers@sofos.uaf.edu
Class Location: TBA

Prerequisites: Upper division standing; FISH 411, or permission of instructor.

COURSE DESCRIPTION
This course will provide an overview of qualitative and quantitative social science methods for studying human-environment relationships. Students will be introduced to research ethics, research design, data collection, data analysis, and data reporting. Specific methods and data analysis techniques to be covered include: interviews, discourse and text analysis, surveys, scales and scaling, cognitive anthropology and ethnography, social networks, behavioral observation, and visual methods. The course will provide hands-on training in data collection and data analysis software, including: Atlas.ti, UCINET, Anthropac, HyperRESEARCH, and ELAN. Students will work independently and in small groups to carry out research and analysis in a series of class projects. Students will design and conduct an original research project and present their results. Students are expected to come to class ready to discuss the readings assigned for the day.

COURSE OBJECTIVES
- To introduce primary methods and data analysis techniques used by social scientists to study the social and cultural dimensions of environmental systems.
- To provide an understanding of all phases of the research process, including: basic social research design, data collection, data analysis, and data reporting.
- To foster interdisciplinary discussion of the contributions and challenges of conducting social scientific research.
- To enhance practical research skills, oral and written communication, and participatory learning.

COURSE REQUIREMENTS
Class Participation
Students are expected to attend class, take notes, ask questions, and actively participate in class discussions. Assigned readings should be read before the lecture for which they are assigned.

Homework assignments
Students will be required to complete homework assignments each week to practice research methods and data analysis. Unless otherwise noted, homework will be due at the start of class each Thursday.

Final Project
Each student will complete a final research project and paper (~ 1500 words) on a topic relevant to this course. Students will have an opportunity to select from a list of topics or propose their own. An outline of the proposed paper and sources will be due in Week 10. Students will give presentations of their research project to the class at the end of the quarter.

GRADING
The grading for this course will be based on absolute points. The value of course assignments are:

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class participation</td>
<td>30</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>150</td>
</tr>
<tr>
<td>Final project</td>
<td>90</td>
</tr>
<tr>
<td>Final presentation</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>300</td>
</tr>
</tbody>
</table>

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Grades will be assigned according to the following scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>98-100%</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>93-97%</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>87-89%</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>83-86%</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>77-79%</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>73-76%</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>70-72%</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>67-69%</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>63-66%</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>60-62%</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>59% and below</td>
<td>0.0</td>
</tr>
</tbody>
</table>

ADDITIONAL INFORMATION

Make-up policy Make-ups for assignments and quizzes are available only for serious illness or family emergencies. Please contact the instructor as soon as possible if you have any extenuating circumstances.

Disability Accommodations If you need special accommodations in this course due to a physical or learning disability, please contact the instructor as soon as possible so we can work with the University to accommodate your needs. You may also contact the Office of Disabled Services at: 203 WHIT (907) 474-5655, TTY: (907) 474-1827. E-mail: fyisko@uaf.edu.

Academic Integrity University of Alaska students are expected to conduct themselves with academic integrity. There is a zero-tolerance policy for plagiarism (http://www.uaf.edu/library/instruction/handouts/Plagiarism.html) or cheating. Please review the Student Code of Conduct to help you understand what is expected and what measures are taken to address misconduct: http://www.uaf.edu/catalog/current/academics/regs3.html#Student_Conduct

REQUIRED TEXTS


ASSIGNED READINGS (available via Blackboard; others TBA)


<table>
<thead>
<tr>
<th>Week</th>
<th>Theme/Lecture Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Social Science Research</td>
<td>Bernard (Ch 1-2)</td>
</tr>
<tr>
<td>2</td>
<td>Ethics of Research and Research Preparation</td>
<td>Bernard (Ch 3)</td>
</tr>
<tr>
<td>3</td>
<td>Research Design, Sampling</td>
<td>Bernard (Ch 5-8)</td>
</tr>
<tr>
<td>4</td>
<td>Interviewing</td>
<td>Bernard (Ch 9-11)</td>
</tr>
<tr>
<td>5</td>
<td>Text Analysis &amp; Grounded Theory</td>
<td>Bernard (Ch 17); Ryan &amp; Bernard 2003; McLellan et al 2003; Charmaz 2000</td>
</tr>
<tr>
<td>6</td>
<td>Surveys, Scales &amp; Scaling</td>
<td>Bernard (Ch 10; 12)</td>
</tr>
<tr>
<td>7</td>
<td>Cognitive Anthropology &amp; Ethnoecology</td>
<td>Bernard (Ch 11); Ryan et al 2000</td>
</tr>
<tr>
<td>8</td>
<td>Cognitive Anthropology &amp; Ethnoecology</td>
<td>TBA</td>
</tr>
<tr>
<td>9</td>
<td>Social Networks</td>
<td>Bongatti et al. 2009</td>
</tr>
<tr>
<td>10</td>
<td>Social Networks</td>
<td>TBA</td>
</tr>
<tr>
<td>11</td>
<td>Behavioral Observation &amp; Analysis</td>
<td>Bernard (Ch. 13)</td>
</tr>
<tr>
<td>12</td>
<td>Statistical Analysis</td>
<td>Bernard (Ch. 19-21)</td>
</tr>
<tr>
<td>13</td>
<td>Visual Methods &amp; Analysis</td>
<td>Maloney &amp; Paolisso 2001; Archer 1997</td>
</tr>
<tr>
<td>14</td>
<td>Visual Methods &amp; Analysis</td>
<td>Shrum et al 2007; Suchar 1997</td>
</tr>
<tr>
<td>15</td>
<td>Course Summary; Final Projects</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Final Project Presentations</td>
<td></td>
</tr>
<tr>
<td>Attendance Method</td>
<td>Approval Code</td>
<td>Instructional Method</td>
</tr>
<tr>
<td>-------------------</td>
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</tr>
<tr>
<td>BC: Brokered</td>
<td>AD: Advisor Approval</td>
<td>AB: Audio &amp; Blackboard</td>
</tr>
<tr>
<td>BT: Broken-Off Prep</td>
<td>CE: Closed (Restricted) Enrollment</td>
<td>AC: Audio Conference</td>
</tr>
<tr>
<td>CN: Contract fee</td>
<td>DC: Dept. Coordinator Approval</td>
<td>AW: Audio Conference &amp; Web-based</td>
</tr>
<tr>
<td>CO: Cooperative Education</td>
<td>DE: Dean Approval</td>
<td>BB: Blackboard</td>
</tr>
<tr>
<td>DE: Developmental Education</td>
<td>DH: Department Head Approval</td>
<td>BD: Blend Classroom/AC/Web/Field</td>
</tr>
<tr>
<td>MM: Multi-Media</td>
<td>DP: Department Approval</td>
<td>MM: Multi-media</td>
</tr>
<tr>
<td>O: Open Entry</td>
<td>ED: School of Education Approval</td>
<td>PW: Partially Web-based</td>
</tr>
<tr>
<td>SS: Self Support</td>
<td>GC: Graduate Committee Approval</td>
<td>SL: Live Broadcast/Satellite</td>
</tr>
<tr>
<td>T: Thesis</td>
<td>HD: Honors Director Approval</td>
<td>TV: Television Delivery</td>
</tr>
<tr>
<td>TC: Tele-course</td>
<td>ID: Instructor &amp; Dean Approval</td>
<td>VC: Video Conference</td>
</tr>
<tr>
<td>VC: Video Conference</td>
<td>IN: Instructor Approval</td>
<td>VW: Video Conference &amp; Web-based</td>
</tr>
<tr>
<td>W: Workshop</td>
<td>PC: Program Coordinator Approval</td>
<td>WB: Web-based</td>
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<tr>
<td>WW: Web</td>
<td>PD: Program Director Approval</td>
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<tr>
<td>Z: Zero/Non-Credit</td>
<td>PR: Provost Approval</td>
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</tr>
</tbody>
</table>

**NOTE:** Required coding approvals must be indicated for the course listed above. Please indicate any additional approvals for this semester.

**Cross-listed/Stacked Courses**

- Cross-listed with:  
- Stacked with:

**NOTE:** A separate class schedule form is required for each course in the cross-listed or stacked courses.

**NOTE:** It is required to indicate the amount of contact hours for academic institutional reports.