TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

<table>
<thead>
<tr>
<th>Department</th>
<th>College/School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish Division</td>
<td></td>
</tr>
</tbody>
</table>

Prepared by:

<table>
<thead>
<tr>
<th>Prepared by</th>
<th>SFOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trent Sutton</td>
<td>907-474-7285</td>
</tr>
</tbody>
</table>

Email Contact:

tmsutton@alaska.edu

Faculty Contact:

<table>
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<tr>
<th>Faculty Contact</th>
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<tbody>
<tr>
<td>Trent Sutton</td>
<td>907-474-7285</td>
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</tbody>
</table>

1. ACTION DESIRED

(CHECK ONE):

- Trial Course
- New Course [X]

2. COURSE IDENTIFICATION:

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course #</th>
<th>No. of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISH</td>
<td>103</td>
<td>2</td>
</tr>
</tbody>
</table>

Justify upper/lower division status & number of credits:

This course will be a lower-level course for first-year students in the fisheries program. The course will meet two hours per week (2 credits) and will focus on class discussions of critical thinking skills by focusing on the peer-reviewed and popular literature associated with the exploitation of marine fisheries resources.

3. PROPOSED COURSE TITLE:

The Harvest of the Sea

4. To be CROSS LISTED?

YES/NO

No [If yes, Dept: ]

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

5. To be STACKED?

YES/NO

No [If yes, Dept: ]

Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. are there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online – see URL at top of this page.

6. FREQUENCY OF OFFERING:

Spring Semester, Every Year

Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) – or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING

(AY2013-14 if approved by 3/1/2013; otherwise AY2014-15)

<table>
<thead>
<tr>
<th>Semester Year of First Offering</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Spring Semester 2015</td>
<td></td>
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</table>

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: (check all that apply)

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

OTHER FORMAT (specify)

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

Lecture and Class Discussions
9. CONTACT HOURS PER WEEK:

<table>
<thead>
<tr>
<th></th>
<th>LECTURE</th>
<th>LAB</th>
<th>PRACTICUM</th>
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<tbody>
<tr>
<td>hours/week</td>
<td>hours/week</td>
<td>hours/week</td>
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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. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See [http://www.uaf.edu/ufac/faculty-senate/curriculum/course-degree-procedures/guidelines-for-computing/] for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

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 management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

FISH F103 The Harvest of the Sea
2 Credits Offered Spring
This course will explore the scientific and popular literature related to the exploitation of global marine fisheries resources. Specific topics of the course will be based on three core themes: (1) early exploitation of marine resources, leading to the need for fisheries management; (2) overexploitation of fish and marine mammal stocks driven largely by technological advancements culminating from the Industrial Revolution; and (3) the current status and future sustainability of marine fisheries resources. This course is largely discussion based; as a result, weekly attendance and preparation is a critical component of the course. Prerequisites: FISH 101, FISH 102, and placement in ENGL 111. 2 credits (2 + 0).

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

H = Humanities  S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.

YES: [ ]  NO: [ ] X

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

0 = Oral Intensive, Format 6
W = Writing Intensive, Format 7
Natural Science, ("X" for Core) Format 8

11. A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.

YES [ ]  NO [ ] X

12. COURSE REPEATABILITY:

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?

TIMES

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

CREDITS

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

CREDITS

13. GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitutes a Major Course Change.

LETTER: [X]  PASS/FAIL: [ ]
14. **PREREQUISITES**  
**FISH 101, FISH 102, and placement in ENGL 111**  
These will be required before the student is allowed to enroll in the course.

15. **SPECIAL RESTRICTIONS, CONDITIONS**  
None

16. **PROPOSED COURSE FEES**  
$0

Has a memo been submitted through your dean to the Provost 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.

There is no anticipated impact of this course on budgets, facilities, space, and faculty. **FISH F103 The Harvest of the Sea (2 credits)** is a course that is to be taught every spring semester by Fisheries faculty members Trent Sutton as part of his annual workload.

19. **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.

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>X</th>
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</table>

Anne Christie, 21 June 2013; necessary resources are available

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)

The inclusion of **FISH F103 in the B.S. in Fisheries Science and the B.A. in Fisheries degree programs** will have no impact on any other programs at UAF.

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

The primary positive impact of **FISH F103** is that student retention in the two Fisheries degree programs (B.S. and B.A.) will be improved by increasing student contact with faculty and by helping to develop a sense of cohort/learning community (see justification below). This course will serve as part 2 of a two-course sequence (part 1 - **FISH F102 Fact of Fishin'**: Case Studies in Fisheries) and will be offered starting during the spring 2015 semester. There are no negative impacts of **FISH F103** on other courses, programs, or departments.

**JUSTIFICATION FOR ACTION REQUESTED**  
The purpose of the department and campuswide 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.

**FISH F103** has been added as a requirement to the B.S. in Fisheries Science and the B.A. in Fisheries degree programs to improve student retention, specifically during the first two years. Current first-year retention rates for new freshman and transfer students combined in this degree program are 50%. We have identified that this is in part due to the lack of classes after the first fall semester that a student is enrolled in the degree program (**FISH F101 Introduction to Fisheries**) until spring semester of their sophomore year (**FISH F261 Introduction to Fisheries Utilization** and **F288 Fish and Fisheries of Alaska**). Based on the retention literature, having frequent contact between students and faculty during the first two years, especially the first year, is critical for creating a learning culture that improves student retention. By adding two 100-level courses during the first year (**FISH F102 – Fall semester; FISH F103 – Spring**)
semester) and moving FISH 261 to the Fall semester of their second year, students will come into more frequent contact with Fisheries Division faculty. Further, we anticipate that increasing the number of lower-level courses will help us to develop a learning community/culture for our students and may also serve as a recruitment tool for students into this degree program.

**APPROVALS:** Add additional signature lines as needed.

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Date 08/21/13</th>
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<tbody>
<tr>
<td><strong>Fisheries Division</strong></td>
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</table>

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<thead>
<tr>
<th>Signature, Chair, College/School Curriculum Council for:</th>
<th>Date 08/21/13</th>
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<tbody>
<tr>
<td><strong>SFOS Curriculum Committee</strong></td>
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<thead>
<tr>
<th>Signature, Dean, College/School of:</th>
<th>Date Aug 21, 2013</th>
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<tbody>
<tr>
<td><strong>SFOS</strong></td>
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</table>

Offerings above the level of approved programs must be approved in advance by the Provost.

<table>
<thead>
<tr>
<th>Signature of Provost (if above level of approved programs)</th>
<th>Date</th>
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**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

<table>
<thead>
<tr>
<th>Signature, Chair Faculty Senate Review Committee: Curry Review GAAC</th>
<th>Date</th>
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</table>

| Core Review SADAC                                                 |      |

**ADDITIONAL SIGNATURES:** (As needed for cross-listing and/or stacking)

<table>
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<tr>
<th>Signature, Dean, College/School of:</th>
<th>Date</th>
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</table>
FISH 103 THE HARVEST OF THE SEA
SPRING 2015

Instructors
Dr. Trent M. Sutton, Professor
1W02 AHREB; Phone: 474-7285
E-mail: tmsutton@alaska.edu

Office Hours
Tu, Th: 9:30 a.m. – 11:30 a.m., or by appt

Meeting Times
3:00 – 5:00 p.m., W, 214 O’Neill Building

Course Description
This course will explore the scientific and popular literature related to the exploitation of global marine fisheries resources. Specific topics of the course will be based on three core themes: (1) early exploitation of marine resources, leading to the need for fisheries management; (2) overexploitation of fish and marine mammal stocks driven largely by technological advancements culminating from the Industrial Revolution; and (3) the current status and future sustainability of marine fisheries resources. This course is largely discussion based; as a result, weekly attendance and preparation is a critical component of the course. Prerequisites: FISH 101, FISH 102, and placement in ENGL 111. 2 credits (2 + 0).

Course Objectives
1. To sharpen critical thinking, written and oral communication, and professional skills, using harvest of marine fisheries resources as the theme of the course
2. To develop knowledge of the basic principles associated with the management of global marine fisheries resources, the development of the field of fisheries science, and whether fish stocks can be managed in a sustainable fashion

Learning Outcomes
By the end of the semester, students that have enrolled in this class will have the following:
1. Familiarity with historical and contemporary conservation and management issues in marine fisheries at a global perspective.
2. Understand the anthropogenic impacts on marine fish and mammal stocks within the context of current and future sustainability of these stocks.
3. Knowledge of the biological, ecological, political, cultural, and socioeconomic dimensions and stakeholder perspectives that shape fisheries management decisions within the context of exploitation of marine fish and mammal stocks
4. Appreciation for the popular and technical literature as related to the exploitation of global marine resources.
5. Fluency to communicate the results of problem-solving efforts in language that is understandable to a range of technical and lay audiences.

Support and Disability Services
At UAF, the Office of Disability Services (203 WHIT; 474-5655; TTY 474-1827; fydso@uaf.edu) ensures that students with physical or learning disabilities have equal access to campus and course materials. If you have specialized needs, please contact this office or the instructor(s) to make arrangements as soon as possible.
Reading Assignments
The required course text is The Unnatural History of the Sea by Callum Roberts (2009; Reed Elsevier Inc.; ISBN-10: 1597265772). Additional readings and handouts will be provided for this course and will be required readings for class discussions. With the exception of the course text, all additional materials will provided in class or on Blackboard.

Class Attendance, Participation, and Professionalism
This course is dependent on weekly class discussions that will require critical thinking and active engagement during each meeting period. Because class participation is essential for these activities, class attendance is mandatory and each student enrolled for this course will need to prepare for each meeting period by completing all necessary readings and assignments before the scheduled periods. Assignments may include answering thought questions related to the readings, conducting literature or Internet searches related to the discussion topic, or analyses of topic-related data. In order to have a meaningful class discussion, it is essential that students complete the assigned readings and associated assignments prior to the class discussion period. To provide incentive for preparation and participation, students will be evaluated on attendance and preparation/participation, with attendance and preparation/participation valued at 5 and 20 points, respectively, for each session (70 and 280 points total, respectively). To receive the full allotment of points for each meeting period, students are expected to be at class on time, prepared for the class activity for that day (e.g., all readings and assignments completed), and actively participate in the discussion/activity for that class period. Students that are late for class will be docked points in proportion to their lateness (e.g., 10 minutes late = 1/6th of the class [16.67% of the class period] = -0.85 points); failure to attend the class without an excused absence will result in a zero for both attendance and preparation/participation points that meeting period. Similarly, students that are only engaged in half of the class activity or that have not completed the assigned readings and assignment will receive only half of the available preparation/participation points on a given day (e.g., 10 out of 20 points). Students not willing to be prepared for and participate in class discussions should not enroll for this course.

An additional 70 points (5 points per day) are also available for professionalism during the class meeting periods. These points will be assigned on an all or none basis; to receive all 5 points for a given meeting period, students are expected to be respectful of their instructors and fellow students. Failure to be respectful of the class learning environment may include the following examples: cell phone ringing, texting or IMing in class, making personal attacks during class discussions, sleeping, and working on unrelated courses assignments. Engagement of students in any of these activities will result in a 0 out of 5 points for that meeting period.

Written Assignments
Four short writing exercises (essays) will be assigned to help you develop and sharpen your critical thinking and writing skills. For each written assignment, you can receive up to 50 points (200 total points). These assignments may take one of several forms: answer a question, take a position on an issue, or support/refute a thesis statement. As stated above, these written assignments will be short: each essay will be limited to between 750 and 1,000 words, requiring you to address the statement, question, or position in a clear and concise manner using language that a reader unfamiliar with the subject topic could understand. Each written assignment will be evaluated following the stipulated criteria and returned to students within one week of submission with appropriate content and writing-based feedback.

Grading
Students will be evaluated primarily on attendance, preparation/participation, and attitude; however, there will also be four short written assignments for this class that will be completed for a grade as well. Grades will be based on a 90-80-70-60 scale. If the class average falls below 75%, this scale will be adjusted accordingly. Missed class discussion periods will be assigned a zero score. If you cannot attend a class discussion period for
a legitimate reason, it is your responsibility to contact the instructor prior to the date in question in order not to receive a penalty. With the exception of emergencies, missed class discussion requests will only be honored if a legitimate reason is provided in writing at least one week prior to that date. Point and percentage values for each evaluation component are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points Available</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>70</td>
<td>25%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>280</td>
<td>50%</td>
</tr>
<tr>
<td>Attitude</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>Written Assignments</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>600</strong></td>
<td><strong>100%</strong></td>
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**Honor System**
All assignments submitted are to be entirely your own work, unless you receive specific instructions to the contrary. All aspects of your course work are covered by the Honor system. Any suspected violations (e.g. cheating, plagiarism) will be promptly reported and appropriate action(s) will be taken. Additionally, you will receive a zero for that assignment or exam; two such violations and you will automatically fail this course. Honesty in your academic work will develop into professional integrity. The faculty and students of the University of Alaska Fairbanks will not tolerate any form of academic dishonesty.
<table>
<thead>
<tr>
<th>Discussion Topic</th>
<th>Week</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Overview</td>
<td>1</td>
<td>No Readings</td>
</tr>
<tr>
<td>The Need for Fisheries Management</td>
<td>2</td>
<td>Ch 1&amp;2; Hardin 1968</td>
</tr>
<tr>
<td>Belief in Inexhaustability</td>
<td>3</td>
<td>Ch 3&amp;4; Larkin 1977</td>
</tr>
<tr>
<td>Overexploitation of Fish Stocks</td>
<td>4</td>
<td>Ch 5&amp;6; Hilborn et al. 2006</td>
</tr>
<tr>
<td>Overharvest of Marine Mammals</td>
<td>5</td>
<td>Ch 7&amp;8; Worm et al. 2007</td>
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<tr>
<td>Impacts of the Industrial Revolution</td>
<td>6</td>
<td>Ch 9-11; Pauly 1990</td>
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<tr>
<td>The Sea is Exhaustible</td>
<td>7</td>
<td>Ch 12-13; Hutchings and Reynolds 2004</td>
</tr>
<tr>
<td>Collapse of Major Fisheries-- Europe/Atlantic Ocean</td>
<td>8</td>
<td>Ch 14&amp;15; Hutchings and Myers 1994; Hutchings 1996</td>
</tr>
<tr>
<td>Collapse of Major Fisheries-- North America</td>
<td>9</td>
<td>Ch 16&amp;17; Hilborn and Stokes 2010</td>
</tr>
<tr>
<td>Shifting Baselines and Empty Seas</td>
<td>10</td>
<td>Ch 18; Pauly 1995; Pinnegar and Engelhard 2007</td>
</tr>
<tr>
<td>Decimation of Marine Resources</td>
<td>11</td>
<td>Ch 19-21; Smith and Link 2005</td>
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<tr>
<td>The Demand for Marine Resources</td>
<td>12</td>
<td>Ch 22&amp;23; Hall and Mainprize 2004</td>
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<tr>
<td>Rehabilitation of Marine Fish Stocks</td>
<td>13</td>
<td>Ch 24&amp;25; Worm et al. 2009</td>
</tr>
<tr>
<td>The Future of Marine Resources</td>
<td>14</td>
<td>Ch 26; Worm and Branch 2012; Pauly et al. 2003</td>
</tr>
<tr>
<td>Marine Fisheries Sustainability</td>
<td>15</td>
<td>Hilborn 2007; Polacheck 2006; Myers and Worm 2003</td>
</tr>
</tbody>
</table>
Peer-Reviewed Literature Reading List


Polacheck, T. Tuna longline catch rates in the Indian Ocean: did industrial fishing result in a 90% decline in the abundance of large predatory species? Marine Policy 30:470-482.

