

96-UNC

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 (Attach copy of syllabus)

Prepared by	Marine Science	and Limnology	College/S	chool			SFO
	Andrew McDo	nnell	Phone		907-4	74-7529	i.
mail Contact	amcdonnell@a	laska.edu	Faculty C	ontact	Andrew	McDon	nell
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#### 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.

The minor in Marine Science is in need of additional course options at the 200 and 300 level and this course will help fill that need. Increasingly, issues of global change and their effect on the oceans and the resources they provide are of high relevance to the global environment and our daily lives as humans. These issues are also very important for Alaska and Alaskan residents. For these reasons, this course will enhance the quality and breadth of UAF education, and will be of use to students with a variety of majors.

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Signature, Chair, Program/Department of:   GPIVIS		
See attached (same email)	Date	
Signature, Chair, College/School Curriculum Council fo	1 191 1	
1 the	Date 12/	17/14
Signature, Dean, College/School of:		
Signature of Provost (if above level of approved progra	Date	
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## 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 <u>denied</u>.

S	YLLABUS	CHECKL	IST	FOR ALL	U	AF	COURSES
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reasonable accommodation to students with disabilities.

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.
<ul> <li>3. Course readings/materials:</li> <li>□ Course textbook title, □ author, □ edition/publisher.</li> <li>□ Supplementary readings (indicate whether □ required or □ recommended) and □ any supplies required.</li> </ul>
4. Course description:
<ul> <li>□ Content of the course and how it fits into the broader curriculum;</li> <li>□ Expected proficiencies required to undertake the course, if applicable.</li> <li>□ Inclusion of catalog description is <i>strongly</i> recommended, and</li> <li>□ Description in syllabus must be consistent with catalog course description.</li> </ul>
5. ☐ Course Goals (general), and (see #6)
6. ☐ Student Learning Outcomes (more specific)
7. 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.).
8. 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.
9. Course policies:
☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.
10. 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.) □ Publicize UAF regulations with regard to the grades of "C and below as applicable 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":
http://www.uaf.edu/files/uafgov/Info-to-Publicize-C_Grading-Policy-UPDATED-May-2013.pdf
<ul><li>11. Support Services:</li><li>Describe the student support services such as tutoring (local and/or regional) appropriate for the course.</li></ul>
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.  State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide
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5/21/2013

# The Oceans and Global Change MSL F216

Instructor:

Dr. Andrew McDonnell Assistant Professor of Oceanography School of Fisheries and Ocean Sciences 907-474-7529

amcdonnell@alaska.edu Office: 231 Irving II

Office Hours: Tuesday & Thursday, 2-3 pm or by appointment

Class meeting times: MWF 2:15-3:15 pm

Location: 105 Murie

Prerequisite: MSL F111X, MSL F211, ATM F101X, ENVI F101, or GEOG F111X

3 credits

Course Description: Explores how global environmental changes are affecting Earth's oceans. Topics include climate change and ocean warming, sea level rise, coastal erosion, declining sea ice, changes in ocean circulation and ecosystems, oceanic uptake of carbon dioxide, ocean acidification, ocean pollution, dead zones, and climate engineering. The course will investigate the causes, effects, and implications of changes in the oceans.

Course Goals: The goal of this course is to gain an understanding of the ocean's role in global environmental change, and how these processes are influenced by and affect human activities.

#### **Learning Objectives**

- Understand how the oceans operate as part of the broader earth system
- Learn about how human activities impact the oceans
- Develop the ability to analyze, interpret, connect, and discuss earth system data as indicators of change
- Learn about uncertainty in global change science and how scientific inquiry can reduce uncertainties
- Evaluate the potential societal, economic, security, and cultural implications of our changing oceans
- Understand the role of oceanic changes in the context of current events
- Assess the feasibility of deliberate actions to mitigate global change and its impacts

**Instructional methods:** This course will achieve the intended learning outcomes through the use of lectures, demonstrations, group discussions, and homework assignments. There will be an emphasis on active learning, and as such, your participation in class is very important.

Reading Assignments: The course will rely on a variety of readings and resources depending on the subject matter being covered (see end of syllabus for some of the core references). Readings will be assigned regularly from various sources that are available on the internet, as free electronic resources from the UAF Library, or distributed by the instructor. Reading assignments are essential for realizing the course's learning objectives, your participation in class, and your performance on the quizzes, homework, and exams.

**Homework Assignments:** The homework assignments are essential to meeting the course learning objectives. Assignments will focus on both a conceptual, quantitative, and applied understanding of the subject material. Students are encouraged to utilize the instructor's scheduled office hours if assistance is needed to complete the assignments. Each homework assignment is worth 100 points. A total of 3 assignments will be given, making for a total of 300 points possible in the Homework grading category.

These points will be weighted to account for 20% of the total grade. Late submissions of homework will be penalized 20 points for each day after the specified deadline.

Quizzes: Approximately 10 short quizzes will be administered at unannounced times during the lectures. The Quizzes will evaluate your basic understanding of the key concepts presented in the lectures and the readings. You are allowed to use any notes you have made. Quizzes cannot be made up at a later time (unless you have notified the instructor of an excused absence ahead before the class session in which the quiz is administered). For this reason it is important that you attend all class sessions, take good notes, and pay attention to the material we cover during class. Your lowest quiz score will be dropped. Quizzes will be weighted to account for 10% of the total grade.

Current Event Presentations: Each student will be responsible for making TWO short presentations about current events of relevance to the course material. The presentation should draw from a news article or recent scientific finding. Schedule your presentation with the instructor 1 week in advance, after you have selected a current event topic. Your first presentation should be completed before October 15, so do not wait until the last minute.

**Midterm Exams:** Two Midterm Exams will be given during class period (see calendar). Exams are closed book. Each Mid-Term Exam is worth 100 points, and each exam will be weighted to account for 20% of your total course grade.

**Final Exam:** A written final exam will be administered during the assigned final exam period. It will focus on evaluating your conceptual understanding of the topics covered in the course and demonstrating your ability to quantitatively interpret earth system data. The exam is closed book. The exam will be worth 10 points and will be weighted to account for 25% of your total course grade.

**Grading**: Points totals from each of the following categories will be weighted according to the following scale in order to obtain an overall percentage course grade.

10% Quizzes

5% Current Event Presentation

20% Homework Assignments

20% Mid Term Exam 1

20% Mid Term Exam 2

25% Final Exam (Comprehensive)

After weighting the total scores from each category according to the weights specified above, total grade percentages will be rounded to the nearest whole percentage point and letter grades will be assigned according to the following scale:

<b>Total Grade Percentage</b>	Letter Grade
94-100	A
90-93	A-
87-89	B+
83-86	В
80-82	B-
77-79	C+
73-76	С
70-72	C-
67-69	D+
63-66	D
60-62	D-
<60	F

**Course Policies**: All students are expected to adhere to the Code of Conduct and other policies described in the University of Alaska Fairbanks Catalogue. Infractions related to the Code of Conduct may result in a grading penalty or disciplinary action.

**Support Services**: Students are encouraged to visit the instructor's office hours for additional help with course concepts, assignments, and exam preparation.

**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 the campus and course materials. If you have specialized needs, please contact this office or the instructor to make arrangements.

### Class Calendar

Week	Topics	Assignments	Reading
1	Introduction, course overview		Syllabus
2	Oceans as part of the Earth system		Vallis p. 15-34
3	Natural variability in climate	Homework 1 Assigned	Vallis Chpt. 2
4	Global climate change	1 1001gilou	IPCC: AR5 SPM
5	Global climate change	Homework 1 Due	
6	Ocean warming	Mid-Term 1	
7	Ocean influence on storms and precipitation		Stewart
8	Sea level rise, coastal erosion		Stewart: Coastal Erosion
9	Changes in ocean circulation	Homework 2 Assigned	Handout
10	Carbon dioxide and ocean acidification		Seattle Times: Sea Change
11	Effects on Ecosystems and Fisheries	Homework 2 Due	Handout
12	Nutrient pollution and dead zones	Mid-Term 2	
13	Climate Engineering		Handout
14	Ocean pollution, oil and mineral extraction from the oceans	Homework 3	Handout
15	Societal, economic, security, and cultural	Assigned	
	considerations	Homework 3 Due	
Finals	TBD	Final Exam	

#### **Resources:**

- Climate and the Oceans, Vallis, Geoffrey K. 2011.
- Intergovernmental Panel on Climate Change: Fifth Assessment Report http://www.ipcc.ch/report/ar5/
- Stewart, Robert. Our Ocean Planet Oceanography in the 21st Century, Online textbook: <a href="http://oceanworld.tamu.edu/resources/oceanography-book/contents.htm">http://oceanworld.tamu.edu/resources/oceanography-book/contents.htm</a>
- <a href="http://apps.seattletimes.com/reports/sea-change/2013/sep/11/pacific-ocean-perilous-turn-overview/?prmid=4749">http://apps.seattletimes.com/reports/sea-change/2013/sep/11/pacific-ocean-perilous-turn-overview/?prmid=4749</a>

**UA Mail** 



Christina Neumann <clneumann@alaska.edu>

### **MSL 215**

Ana Aguilar-Islas <amaguilarislas@alaska.edu>
To: Christina Neumann <clneumann@alaska.edu>

Wed, Dec 17, 2014 at 9:07 AM

Christina,

Thanks for sending the updated forms. He addressed the changes that we suggested. They are ready to go

Ana

[Quoted text hidden]

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Ana M. Aguilar-Islas Assistant Professor School of Fisheries and Ocean Sciences 245 O'Neill Bldg. PO Box 757220 University of Alaska Fairbanks Fairbanks, Alaska 99775-7220 Office 907 474 1524; Lab 907 474 5032 Fax 907-474-7204

## **Curriculum Committee SFOS**

Members:

Ana Aguilar-Islas (Chair)

Jeffrey Falke Katrin Iken Andres Lopez

5 December 2014

**Trial Course** 

Course Number: MSL 215

Course Title: The Oceans and Global Change

**Instructor:** McDonnell **First Time of Offering:** No

#### **General Comments and Recommendations:**

This is a good addition to MSL 200 level electives. The course is likely to continue to have a broad appeal.

## **Faculty Senate Form:**

## Clarify and Address the following:

- Section 2: Course number is 215
- Section 7: Fix typo. Should read 2015
- <u>Section 18:</u> Please contact the library. An email letting the library know the topic of new courses and the course's dependence on their resources is sufficient, and will give them information for future acquisitions.
- Section 20: Fix typo. Should read "...appropriate courses to..."
- Section 21: Add "at the 200 and 300 level" after "course options"

#### Syllabus:

- Prerequisites: Redundancy. Remove "One of the following" or remove the "or" before MSL211.
- Quizzes: Insert "it" after "For this reason...". For clarity, insert "quizz" after "Your lowest..."
- Class Calendar: Include reading assignments on the table