



**Tech Prep Articulation Agreement
Between
University of Alaska Southeast (UAS)
and
Juneau School District (JSD)**

**Fisheries Technology
School Year 2016-2017**

Purpose:

In addition to the general Tech Prep Agreement, the purpose of this articulation agreement is to outline the mutual understanding as we have agreed to the following process and criteria with respect to the program of Fisheries Technology.

Course:


The school district program will follow a curriculum coordinated with the administration and faculty of UAS pertaining to the following course:


**Fisheries - Fundamentals of Fisheries Oceanography
FT S110** An overview of the ocean environment with emphasis on processes that support fisheries productivity. Introduces fundamental concepts and principles of oceanography including major geological, chemical, physical and processes that occur in the world's oceans. Concepts will be presented in light of the interrelatedness of these disciplines and how they shape marine productivity. Human uses of fisheries and current issues in oceanography will be addressed. **3 Credits (3+0) No prerequisite.**

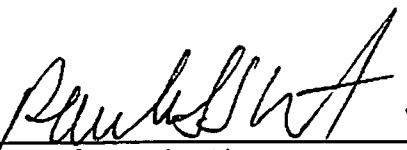
Although teaching methods may differ, this course will be subject to the instructional objectives and outcomes of the attached UAS syllabus.

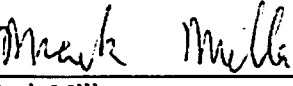
Administration:

1. Students must have an overall 2.0 GPA to register for university credit.
2. It is recommended that course work be completed at a level of 3.0 GPA.
3. UAS program chairs shall review and approve all course syllabi and related curriculum documents to ensure they replicate the UAS course. This includes standardized course syllabi, course objectives, textbooks, tools, equipment, and methods for evaluation.
4. To receive concurrent credit, the student will register for the Tech Prep course at the beginning of the term in which the competencies will be completed. Registration for yearlong courses will take place during the fall semester.
5. The UAS grade posted will be the UAS grade earned for the course and submitted by the district instructor.
6. Student grades will be submitted by 5:00 p.m. of the final day of the district semester at uaonline.alaska.edu.
7. Any change in instructor requires suspension of this addendum.

 29 May 16
 Reid Brewer, Program Head Date
 Fisheries Technology
 University of Alaska Southeast

 5/18/2016
 Ben Carney, Instructor Date
 Fisheries Technology
 Juneau School District

 9/9/14
 Dr. Paula Martin, Director Date
 Sitka Campus
 University of Alaska Southeast

 5/25/16
 Mark Miller Date
 Superintendent
 Juneau School District

Fall 2013 Class Syllabus: FT 110 Fundamentals of Fisheries Oceanography

Instructor: Valerie Barber

Meeting times: Mondays 4:30 – 7:20 pm via UAS online

Instructor Information:

Valerie Barber, Assistant Research Professor

Office location Kertulla Hall

UAF Center For Sustainable Living

1509 S Georgeson Dr.

Ketchikan AK 99901

e-mail: vabarber@alaska.edu

work phone: 907 746-9466

cel 907 378-4002

fax: 907 745-6268

Office Hours: As needed. Call or email and if I am busy I will get back to you asap.

To access this class: Go to www.uas.alaska.edu and enter UAS online. We will utilize the web meeting feature (click on web meeting link on left hand tool bar inside the class site) of UAS online and please allow yourself a few minutes to enter the class room.

You will need a username and password to access this site. If you need help with login visit

<https://uascentral.uas.alaska.edu/elmo> and follow directions to create a username and password. Make sure to write your user name and password for future reference. If you need help with UAS online, please call toll-free 877-465-6400 or e-mail helpdesk@uas.alaska.edu.

Help Resources

Sitka Campus: sitka.distance@uas.alaska.edu, 800-478-6653 or 907-747-7700 (x = phone extension)

• You can start here with questions about *any* aspect of our course, including technology.

If we don't know the answer we will find someone who does

• eLearning Support: Kim x7709, Eric x7757, Emy x7721, Amy x7726, Randy x7701

• Lab Assistant and Tutor: Wes x7775 mcnews20@uas.alaska.edu

• Writing Assistant: Jasmine Shaw x7717 jdshaw@alaska.edu

• UAS Sitka Facebook and Twitter www.uas.alaska.edu/sitka.

UAS Technology Help Desk: 877-465-6400, <http://www.uas.alaska.edu/helpdesk/>

GENERAL INFORMATION

Disability Services

If you experience a disability and would like information about support services, contact the Sitka Campus at 800-478-6653 or DSS at <http://www.uas.alaska.edu/dss/index.html>. It is the student's responsibility to initiate contact and provide appropriate disability documentation to DSS.

Multi-Lingual Students

Taking an advanced course in a language that is not your first language is an accomplishment to be admired. It can also be a challenge. Our writing tutors have ESL expertise and a commitment to helping you reach your goals.

Academic Honesty

Academic integrity is expected at all times. **It is the student's responsibility to be familiar with the relevant sections in the UAS catalog and the UAS student handbook.** Academic dishonesty of any type, including plagiarism and inappropriate test conduct, will typically result in the most serious consequences provided for by UAS policy. Test misconduct or plagiarism of a written or image-based assignment (including Open Book Tests, Disease Team posts and Labs) will result in a zero for the assignment or a failing grade for the course.

Assignments, Tests

Assignments are generally uploaded to our website. Follow submission instructions carefully. It is the student's responsibility to immediately review submissions to make sure the upload was successful and to keep digital copies of all work submitted until grades are assigned. Do not submit assignments as attachments or by email, US mail, or fax unless directed. Neglecting to follow submission instructions, not reviewing your uploaded assignments, or not keeping a copy of your work may result in lost points.

Test dates and assignment due dates will not be changed unless there are unusual circumstances. Late points are subtracted for late work unless an extension is requested by and approved in advance. Request extensions by email and include the specific assignment and the date you will submit it.

Tests will be open book and take home. You will have a week to complete. Don't wait until the last minute. Open book exams are usually harder and involve more thought and more writing. Expect to spend several hours on it.

Technology

Expect to face some technology issues as part of getting your work done. Technology problems can be frustrating and time-consuming. Take control. Be a good shepherd of your time and your attitude. A good rule of thumb is to never spend more than about 15 minutes trying to resolve a technology problem on your own. Reach out for help using the numbers on the front page of the syllabus. If it is after hours, switch to a different task until you can reach technology help. If a deadline is looming, email to let me know of the issue. You will have an automatic extension (as long as it does not become habitual) while you work with technology help to resolve the issue.

Poor Internet access can put you at a disadvantage. Contact me to discuss the possibility of modifying assignments to accommodate connection problems.

Incomplete Policy

Incomplete grades may sometimes be negotiated when circumstances such as illness or family emergency interfere with completion. To qualify for consideration of an incomplete a student must have completed the majority of coursework, earned a C or better on each part of the midterm, and participated fully and consistently through out the class. Incomplete grades will not be given in cases of non-participation or failure to communicate with the instructor. Students who are unable to participate in coursework for a significant amount of time during the semester should plan to re-register for the course at a later date rather than take an incomplete grade.

Time and Effort

We have only three hours of scheduled meeting time per week. Much of the coursework involves independent study and you should be prepared to work very hard. An average student can expect to put in about 9 hours of study per week, outside of scheduled meetings, to earn an average grade. I am here to help you learn and will do whatever I can to assist you.

Course Objective: To provide an overview of the ocean environment with emphasis on processes that support fisheries productivity. The course will provide an introduction to the fundamental concepts and principles of oceanography to include major geological, chemical, physical, and biological processes that occur in the world's oceans. Concepts will be presented in a manner that highlights the interrelatedness of these sub-disciplines of oceanography and ultimately how they shape marine productivity. Human uses of fisheries and current issues in oceanography will be covered.

Textbook: Essentials of Oceanography (edition 10 or 11), Trujillo and Thurman, Pearson. You can either buy a used or go to bookstore and new ones are listed there.

Other book: Rachel Carson "The Sea around us"- special edition (Amazon \$15)

Special focus: The class, whenever possible, will cover and use as teaching focus, current or emerging issues of importance to Alaska and Alaska coastal communities. We will be using articles from newspapers and journals. Occasionally there will be a guest speaker.

UAS Competencies:

This course will address the following UAS competencies:

Competency in Critical Thinking: Students in this class will be required to apply critical thinking skills to understand the role of the ocean environment in supporting commercial fisheries development. Students will learn the basic aspects of oceanography that are important for productive fisheries.

Competency in Quantitative Skills: Students in this class will apply quantitative skills to the study of fish. Examples include measuring water quality and habitat parameters of fish.

Competency in Professional Behavior: Students will also be required to work as a team and help each other with class assignments. These are professional behaviors for fisheries technicians.

Competency in Communication: Students in this class will demonstrate communication skills in their regular interactions during class and via the discussion board.

Class Schedule:

| Date | Topic | Reading/other assignments |
|----------------|--|--|
| September 9th | Introduction to the class/class organization/expectations/student introductions Introduction to resources for general and Alaska specific information. Overview of the world oceans – a geographic tour. Historical Perspectives in Oceanography as a Scientific Discipline; Introduction to the field of oceanography | Start reading “The Sea Around Us” Chapter 1 in Essentials of Oceanography |
| September 16th | Introduction to sub-disciplines of oceanography: Sub-discipline 1: geologic/physical: Earth structures and plate tectonics. Marine provinces and sea floor features | Please read chapter 2 & 3 in the text. |
| September 23th | Ocean basins and continental margins – importance of margins to fisheries Oceanography. Marine sediments and sedimentation – large-scale and regional – impacts on habitat; Guest speaker. | Please read in chapter 13 pages 394-401 and chapter 4 in the Essentials of Oceanography. |
| September 30th | Sub-discipline 2: chemical properties of water. Ocean acidification, sea level rise, freshwater runoff from melting glaciers and ice caps and what’s happening in the oceans today. | Please read chapter 5 in EO. |
| October 7th | Sub discipline 3: Physical oceanography. Air-sea interaction. Ocean and atmospheric circulation; Guest speaker | Please read chapters 6&7 in EO |
| October 14th | Waves and tidal influences Special focus: Sea level rise and acidification impacts in Alaska | Please read chapters 8 & 9 Exam 1- take home |
| October 21nd | Coastal oceanography; characteristics and pollution issues. Affects on fisheries | Please read chapters 10 & 11 |
| October 28th | Sub-discipline 3: Biological oceanography with special emphasis on fisheries productivity – and relationship to chemical and physical processes Current related research projects in Alaska | Please read chapter 12 |
| November 4th | Life in the sea: relationship between plankton abundance and | Please read chapter 13 |

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| | nutrient/seasonal cycles; Ocean productivity and food webs. Plankton Special focus on Harmful Algal Bloom impact on Alaska fisheries | |
| November 11th | Life in the sea: Pelagic animals; Survey of marine habitats used by commercially important fish in Alaska | Please read chapter 14 |
| November 18th | Life in the sea; Benthic environment; | Please read chapter 15 |
| November 25th | Fisheries productivity in relation to oceanographic conditions – case studies from Alaska and the Pacific Northwest | Please read chapter 16 Exam 2 take home |
| December 2 | Current issues in Alaska | |
| December 9 | Final Exam Week | Final Project Due |

Student Grading and Class Expectations:

Weekly lectures will start at 4:30 pm on Mondays and students are required to attend. If you are unable to make class please let the instructor know you will miss class. All web meeting sessions will be recorded and you can access these recordings to stay up on class topics. Students are encouraged to ask questions during class, whether by speaking in microphone or sending texts during the class session. Students who text in class need to remember that although you can send a message to another student and not the entire class, the instructor will still see the message. Students will not be penalized for typos texted during class. I frequently make typos when in class. I do expect discussion board postings to be more polished – at a minimum ensure to spell check and use correct grammar.

Grading: There will be 2 take home exams each worth %15 each of your grade. A final project will be 15%. Class attendance and participation will be 10% of your grade (if you have to work or have a conflict, let me know ahead of time and you won't be penalized). There will be a total of 10 online quizzes worth 10% of your grade. There will be some homework questions for the chapters (15%). You will be required to find a course related current event (within the past year or so) and discuss it with the class (why its relevant, important, or interesting) and pose a question for the class (20%).

Grading for Lecture:

| | |
|---|-------------|
| Two exams (take home) | 30% |
| Final project | 20% |
| Class attendance and participation | 05% |
| Periodic quizzes (10 at 10 points each) | 10% |
| Homework | 15% |
| Current even article discussions | 20% |
| Total | 100% |

Final grades will be based upon below scale according to total percentages indicated above:

| | | | | |
|-----------|-----------|-----------|-----------|-----------------|
| | B+ 87-89% | C+ 77-79% | D+ 67-69% | F less than 60% |
| A 93-100% | B 83-86% | C 73-76% | D 63-66% | |
| A- 90-92% | B- 80-82% | C- 70-72% | D- 60-62% | |