Course Syllabus

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1. Disability accommodations: If you would like to request academic accommodations due to a disability, please contact Disabled Student Services, 448 Schmitz (206-543-8924 (V/TTY). If you have a letter from Disabled Student Services indicating you have a disability that requires academic accommodations, please present the letter to the instructor so that we can discuss the accommodations you might need for the class.

2. Academic Integrity: Plagiarism, cheating, and other misconduct are serious violations of your contract as a student. We expect that you will know and follow the University's policies on cheating and plagiarism. Any suspected cases of academic misconduct will be handled according to University regulations. More information, including definitions and examples of Academic Misconduct can be found at: http://depts.washington.edu/grading/issue1/honesty.htm

3. Office hrs: By appointment

4. Lecture: Thursday 1:00-3:50pm, FSH 107; **Friday** 8:30-9:20am in FSH 108

*Note two field trips will occur during class period April 18th and May 23rd (we will leave at 12:30pm sharp and return in the evening.

5. Text book: None -- *but for those interested in extra reading*:

- Fundamentals of Aquaculture by James W. Avault, Jr (Ed.). 1996. AVA Publishing Co, Inc., Baton Rouge, LA, 889 pp.
- Ecological Aquaculture by Barry Costa-Pierce (Ed.). 2002. Blackwell Science, Malden, MA, 382 pp.
- Required readings will be posted on the class website

6. Learning objectives: To develop skills and acquire knowledge to be able to understand different aquaculture systems, the relationship between successful aquaculture and environmental stewardship, and the opportunities/limitations of obtaining shellfish and finfish from the ocean and aquatic systems. An underpinning of sustainability (the environment, culture ability and economic viability of culture operations) will be examined throughout the course. Specifically, this course will help you to learn how aquaculture supports production of representative species including conservation and for various other purposes. You will learn about the interrelationship between culture operations and the natural environment, specifics on culture of selected species will be explored.

7. Skill objectives:

- Speaking
- Writing
- Critical thinking and problem solving
- Collaborating with other students
- Gathering, reading, and reporting on current events related to aquaculture and fishery commodities

- Participation in discussions
- Interaction with professionals in the aquaculture industry
- Gain experience with operating an aquaculture production system.

8. Course overview: This course will explore the concept of sustainability as it applies to the interrelationship between the environment, aquatic species (e.g. biology, health, nutrition) and the culture of aquatic animal and plant species on a global level. Current practices of practical commercial production will be discussed, as will changes and understanding needed to improve the sustainability of aquaculture. Key issues associated with the attainment of sustainability and successful culture for food production and species conservation will be the focus of the lectures. These issues include aquatic and near-shore ecosystem conservation, relationship with fisheries, animal health, water quality, transfer regulations, culture practices, species selection, and others.

Students will be expected to come to class prepared, which means having completed the readings and prepared discussion plans and questions. Students will be expected to lead discussions during class as outlined on the syllabus.

9. Evaluation system:

% of course grade*	
Exam 1	20%
Exam 2	20%
Class participation/homework	35%
Field trips	25%
(10% participation	
15% group presentation)	
TOTAL	100%

*subject to change

10. Late Policy: Assignments turned in late will be penalized (10%) for each day they are late unless prior arrangements have been made.

11. Exams: Approximately 75% of the material on the exams will be from information presented in lecture, and approximately 25% may be from the assigned reading. Study questions will be distributed approximately one week prior to the exams and final. Class time and/or a special review session will be scheduled for discussion and to answer questions.

The two exams will consist of:

- 1-2 case studies in which you will be presented with a situation or dilemma. Your charge will be to provide the best solution and to justify your answer.
- Short answer (problems, definitions, compare-and-contrast, etc.)

12. Field trips: You will be going on several field trips during course and you are required to attend at least 2 of them (1-2 with the class and up to 1 self guided). Extra credit given for full attendance if more than 2 are planned. Self-guided field trips may be during the week or weekend. Each field trip will require completion of a summary to be later used in your group presentation. Students should take pictures to use in their presentations. There may be questions on the exams related to the field trips.

13. Reading assignments: All readings are on the course catalyst website. Additional readings may be added periodically to complement the lecture series.

Fish 424 Lecture Syllabus 2019

April 4 – Lecture 1 and discussion: Basic principles

Homework 1 assigned and Monday April 8th.

Reading Quiz 1 assigned and due April 5 by 8am

April 5 – Lecture 2 Sustainability

Reading Quiz 2 due April 10 8pm

April 11 – Lecture 3: Aquaculture effect on fisheries: Guest Lecture: ***Dr. Chris Anderson***

April 12 – Lecture 4: Regs/tribal harvest/society

Reading Quiz 3 due April 17th by 8pm

April 18 – Lecture 5: **Penn Cove tour** Leave UW at 12:30pm sharp! Extra credit for driving and helping get vans

April 19 – Lecture 6: Genetics

Reading Quiz 4 due April 24th by 8pm

April 25 – Lecture 7: Therapeutants and diseases?

Dr, Maya Groner Seminar (4-5pm FSH 102 with TGIT to follow). Don't forget to sign in.

April 26 – Pond and cage culture of finfish

Reading Quiz 5 due May 1st by 8pm;

May 2 – Lecture 8: **Guest lecture on offshore aquaculture by Dr. Langley Gace.**

Reading Quiz 6 due by 11:59pm May 2nd.

May 3 – Lecture 9: **Tim Essington Guest Lecture/Discussion-** Marine Stewardship Council – An certification perspective

Reading Quiz 7 due May 8th by 11:59pm

Reading Quiz 8 due May 9th by 11:59pm

May 9 – Lecture 10: **Graham Young Guest Lecture**: Physiology; **Student-Discussion Leaders: Bailey, Spencer, Parker (Physiology and Breeding)**

May 10 – Lecture 11: Mollusc biology and culture 1: Abalone

May 16 – Lecture 12: : **Ray Hilborn Guest Lecture**: Environmental impacts of aquaculture as compared to other protein production systems and discuss how molluscs vs fish can improve?; **Montlake Field trip (Bring your ID)**

May 17 – **Jose Guzman R**estoration aquaculture

Reading Quiz 10 due May 23rd by 11:59pm

May 23: **Mollusc** aquaculture 2-Bivalves; nutrition; **Student-Discussion Leaders: Celine, Zach and Kahana (Conservation and sustainability)**

May 24 – Lecture 14: Macroalgae culture and Biofuels; **EXAM 2 take home handed out (Due May 29th)**

Reading Quiz 11 due May 29th by 11:59pm

Reading Quiz 12 due May 30th by 11:59pm

May 30 – Lecture 15: Shrimp/crustacean biology and culture;

Dr. Arun Dhar Seminar (4-5pm FSH 102 with TGIT to follow): Don't forget to sign in.

May 31 – Lecture 16: paper discussion of Arun's lab; **Student-Discussion Leaders: Melissa and Harrison**

June 6 – Lecture 17: Group Presentations

June 7 – Lecture 18: Meet with faculty of Ocean University of China – Aquaculture Department.

Course Summary:

Date	Details	
Mon Apr 10, 2017	Week 3 homework to be done before class Tuesday April 11 (https://canvas.uw.edu/courses/1273433/assignments/4662273)	due by 12pm
Tue May 16, 2017	Exam 2 (https://canvas.uw.edu/courses/1273433/assignments/4662264)	due by 8:59am
Fri Apr 5, 2019	Week 1 - April 5th lecture (https://canvas.uw.edu/courses/1273433/assignments/4662274)	due by 8am
Mon Apr 8, 2019	Academic honesty agreement (https://canvas.uw.edu/courses/1273433/assignments/4662258)	due by 11:59pm
	Week 1 homework - 3 points!! (https://canvas.uw.edu/courses/1273433/assignments/4662272)	due by 11:59pm
Thu Apr 11, 2019	Week 2 April 11th Reading for in class discussion (https://canvas.uw.edu/courses/1273433/assignments/4779423)	due by 11:59pm
Fri Apr 12, 2019	Friday April 12th Discussion Reading Quiz (https://canvas.uw.edu/courses/1273433/assignments/4783078)	due by 7:45am
Fri Apr 19, 2019	Week 3 Genetics reading Houde et al. 2011 (https://canvas.uw.edu/courses/1273433/assignments/4792676)	due by 8am
Thu Apr 25, 2019	Exam 1 (20% of grade) (https://canvas.uw.edu/courses/1273433/assignments/4662263)	due by 12pm
	Penn Cove Shellfish, Whidbey Island (4/18/19) (https://canvas.uw.edu/courses/1273433/assignments/4662270)	due by 11:59pm
Thu May 2, 2019	May 2nd Water Quality Quiz (https://canvas.uw.edu/courses/1273433/assignments/4803703)	due by 11am
	Dr. Maya Groner's seminar (4/25/19) (https://canvas.uw.edu/courses/1273433/assignments/4662271)	due by 11:59pm
	Friday May 3rd reading quiz (https://canvas.uw.edu/courses/1273433/assignments/4804003)	due by 11:59pm
Thu May 9, 2019	Reading and Quiz (DUE May9th 11:59pm) for Friday Mollusc Culture Lecture (https://canvas.uw.edu/courses/1273433/assignments/4807812)	due by 11:59pm

Date	Details	
	Reading Quiz 8 due May 9th by 11:59pm (https://canvas.uw.edu/courses/1273433/assignments/4807824)	due by 11:59pm
Wed May 22, 2019	Reading Quiz 9 (https://canvas.uw.edu/courses/1273433/assignments/4821201)	due by 11:59pm
Thu May 23, 2019	NOAA-Montlake Field Trip May 16, 2019 MANDATORY attendance (https://canvas.uw.edu/courses/1273433/assignments/4662267)	due by 11:59pm
Fri May 24, 2019	Reading for Friday May 24 (https://canvas.uw.edu/courses/1273433/assignments/4822601)	due by 8am
Thu May 30, 2019	Reading Quiz 10 (https://canvas.uw.edu/courses/1273433/assignments/4826431)	due by 11:59pm
Sat Jun 1, 2019	Exam 2 2019 - Updated to remind you to include diagrams and or pictures in your proposals. (https://canvas.uw.edu/courses/1273433/assignments/4826429)	due by 11:59pm
Wed Jun 5, 2019	Field Trip Presentations (https://canvas.uw.edu/courses/1273433/assignments/4662265)	due by 11:59pm
Thu Jun 6, 2019	Dr. Arun Dhar's Seminar (https://canvas.uw.edu/courses/1273433/assignments/4662259)	due by 11:59pm
Sun Jun 9, 2019	Peer Review Quiz (https://canvas.uw.edu/courses/1273433/assignments/4838422)	due by 11:59pm
	Announcements (https://canvas.uw.edu/courses/1273433/assignments/4796306)	
	Carolyn's Field Trip Pictures that you can use...but indicate that Carolyn took the pics in your ppt (https://canvas.uw.edu/courses/1273433/assignments/4831527)	
	Class and Self-Guided Field Trips (https://canvas.uw.edu/courses/1273433/assignments/4662269)	
	Class Notes (https://canvas.uw.edu/courses/1273433/assignments/4787884)	
	Conservation aquaculture discussion (https://canvas.uw.edu/courses/1273433/assignments/4662260)	
	Driving (https://canvas.uw.edu/courses/1273433/assignments/4662261)	
	Friday May 3rd reading (https://canvas.uw.edu/courses/1273433/assignments/4803999)	

Date	Details
	Reading and QUIZ for Thursday May 9th Lecture and Discussion (https://canvas.uw.edu/courses/1273433/assignments/4809117)
	Reading for Friday April 19th - Genetics JOSEF and DONOVAN Discussion Leaders (https://canvas.uw.edu/courses/1273433/assignments/4788449)
	Reading Quiz 7 due May 8th by 11:59pm (https://canvas.uw.edu/courses/1273433/assignments/4807823)
	Readings (https://canvas.uw.edu/courses/1273433/assignments/4769886)
	Readings - Water quality and nutrition (https://canvas.uw.edu/courses/1273433/assignments/4800097)
	teaching colleen (https://canvas.uw.edu/courses/1273433/assignments/4849297)
	Thursday MAY 2nd Discussion papers (https://canvas.uw.edu/courses/1273433/assignments/4800101)
	Week 8 reading and discussion quiz (https://canvas.uw.edu/courses/1273433/assignments/4821197)
	Week 9 - Shrimp Disease Readings May 31st Discussion MELISSA, LEXI and HARRISON Discussion leaders (https://canvas.uw.edu/courses/1273433/assignments/4788054)