

# AQUA-3: Intro to Fisheries

## Course Information

**Semester & Year:** Fall 2025

**Course ID & Section #:** AQUA-3- V9060

**Instructors Name:** Jasmine Iniguez

**Day/Time of required meetings:** Asynchronous

**Course units:** 3

## Instructor Contact Information

**Office location:** SCI 216I

**Office hours:** In person by appointment or via ZOOM

**Phone number:** (707) 476-4528

**Email address:** [jasmine-iniguez@redwoods.edu](mailto:jasmine-iniguez@redwoods.edu)

**Social Media:** [CR\\_Aquaculture](#)

## Catalog Description

This course is designed to provide students with a general understanding of the history, present status, and future of fisheries. Students will learn about inland and offshore fisheries, fishing gear, methods, management strategies, economics, and the sociology of fisheries. This course provides an overview of fisheries laws and regulations and their relationship between fish, people, and the environment. Special attention will be devoted to commercial finfish and shellfish fisheries on the West Coast.

## Course Student Learning Outcomes

1. Identify different systems and techniques for breeding, growing, and harvesting various aquaculture species including strategies for prevention and water quality optimization
2. Discuss past and present issues in aquaculture, analyze legal, social, economics, and environmental context in which the industry operates.

## Prerequisites/corequisites/ recommended preparation

None

## Required Course Textbook

### Fisheries Biology: Assessment and Management, 2<sup>nd</sup> Edition

Author: Michael King

Publisher: Wiley-Blackwell

ISBN: 978-14051148312

## Recommended Course Textbook

### Brief Introduction to Fisheries

Author: Xinjun Chen and Yingpi Zhou

Publisher: Wiley-Blackwell

ISBN: 978-981-15-3136-1

## Evaluation & Grading Policy

### Grading:

Course Requirements	Percent of Total Grade	Due Date
Exam 1	15	Week 4
Exam 2	15	Week 10
Final Exam	15	Week 17
Research Paper	15	Sunday
Quizzes	20	Sunday
Discussion Boards	20	Sunday

### CR has a set policy for how course percentages convert to grades:

A > 92%; A- 90-92%; B+ 87-89%; B 83-86%; B- 80-82%; C+ 77-79%; C 70-76%; D 60-69%; F

### Late Assignments:

*Each student is responsible for completing all assignments and activities as specified by the instructor by the date indicated.* If you have an emergency (e.g. hospitalization, death in the family, car accident) please notify me as soon as you can if this affects your coursework or attendance. Please contact me immediately if something in the foreseeable future is approaching as well. Be mindful that Discussion Boards and Quizzes will *close* on the scheduled due date at midnight.

### Late Policy:

**5% deduction per day** with only a week after the scheduled due date will you be able to submit assignments. This only applies to discussion boards, quizzes, and the fisheries research paper - Not Exams, please keep this in mind!

## Exam Make-up Policy:

This class will have a total of **three exams (100 points each), which make up 45% of your grade!** The course is broken up into three units. These three units make up each exam, which means the exams are not cumulative, but some topics may be repeated, and you may see them on other exams. The final is not cumulative. ***You must have a serious and verifiable excuse to miss a lecture exam. If you have an emergency (hospitalization, family/friend death, car accident, quarantine) please notify me as soon as you can if this affects your ability to take the exam on the scheduled date.*** Please contact me 12 hours in advance if something in the foreseeable future is approaching as well. If you do not notify me and or do not provide a legitimate excuse an automatic 10% will be taken from your makeup exam.

## Netiquette

While we are not communicating face-to-face, please remember to be respectful. This includes opinions and thoughts that are made by your peers on the discussion boards. We should all be supportive and encouraging to the difference of opinion of others – as we can grow from this! We should all support each other in the course to achieve our goals and be successful. An online classroom will still be a safe place for your peers just as much as an in-person setting should be.

## Discussion Boards

Each Monday you will have a new weekly discussion board to post on. You will have to read or watch the content that is provided on the discussion board and answer the discussion board questions. The discussion posts must be done by **Friday of the given week at 11:59pm**. You will then need to respond to another classmate's post on the discussion board. These **responses post must be done by Sunday of the given week at 11:59 pm**. Your initial post will be graded by the thoughtful, detail, and effort that was taken into the discussion and your responses post will be graded by effort and detail. These discussion boards are worth **20% of your grade**.

- **Initial post:** Must be done on Fridays. You will be graded on the following: detail, insight, contribution, originality, and thoughtfulness.
- **Response Post:** Due on Sundays at midnight. Please be engaged with your peers. Posts with text verbiage such as “OMG and LOL” will not be accepted. Please try to engage and avoid posts such as “Nice work” or “That makes sense, thanks for sharing”. These posts with little engagement and thoughtfulness will not receive credit

## Quizzes:

Quizzes will be made available on Canvas that will have questions corresponding with the given week's lectures. Please refer to textbook readings for further clarification on the content. **Quizzes will be due 11:59pm on Sundays. You will have two attempts at each quiz, and the highest grade is kept. Quizzes are worth 15% of your grade!**

## Assignments:

You will have 1 main assignment in this class. See Canvas Assignment for more details. This paper is broken into 4 different submissions. Please be mindful of due dates.

## Fisheries Research Paper:

Students are required to write a literature review on a specific fishery, species involved in fisheries, or another fisheries-related topic of your choice. **No repeat topics or species or species among students!**

For topic inspiration, visit <https://www.fisheries.noaa.gov/find-species>.

### FORMAT:

- MLA or APA Format
- **File Type:** Word document (not pdf) so feedback can be provided using track changes
- **Font & Spacing:** Typed, 12- point Times New Roman, double spaced
- **Length:** 4-6 pages
- **References:** Cite 5 peer-reviewed journal articles.
- **Visuals:** include at least 3 pictures, diagram, or tables. Examples: Image of species, fishing gear used, and global fishery status diagrams.
- **Note:** visuals do not count towards page requirements and should be placed at the end

### PAPER OUTLINE:

**Introduction:** Provide a brief overview of the selected fishery, including its importance in terms of ecological, economic, and social aspects. Highlight any existing challenges or issues related to sustainability.

**Ecological Assessment:** Include information on the target species, their life cycle, reproduction, population dynamics, and the overall ecosystem in which the fishery operates.

**Harvest Methods and Gears Used:** Provide information on harvest methods and gears used

**Social Considerations:** Explore the social dimensions of fishery, considering the livelihoods of fishers and the communities dependent on fishery. Consider the cultural significance of fishery and potential impacts on local communities.

**Management Plan:** Include management strategies for selected fishery and any harvest quotas and fishing gear restrictions.

**Concerns and Issues:** Identify any environmental impacts and potential threats to the fishery's sustainability.

**Citations:** Utilize google scholar (<https://scholar.google.com/>) to search for academic journals.

If there is a research manuscript you are unable to access, please let me know. I may be able to get it for you.

## Tentative Course Schedule

AQUA-3: Intro to Fisheries			
Module	Week 1	Topic	Assignment
1	Aug 25 - 31	Course Overview Intro to Fisheries Current and Global State Humboldt County Fisheries	DB: 1 No Quiz
Module	Week 2		
2	Sept 1 – 7	Fish Classification and External Anatomy	DB: 2 Quiz 1
Module	Week 3		
3	Sept 8 – 14	Fish Biology and Physiology Fish Dissection Preparation	DB: 3 Quiz 2
Module	Week 4		
<b>4</b>	<b>Sept 15 – 21</b>	<b>EXAM 1</b>	
Module	Week 5		
5	Sept 22-28	Types of Fisheries	DB: 4 Quiz 3
Module	Week 6		
6	Sept 29-Oct 5	Commercial Fisheries Gears and Methods	DB: 5 Quiz 4
Module	Week 7		
7	Oct 6-12	Bycatch and Overfishing	DB: 6 Quiz: 5
Module	Week 8		
8	Oct 13-19	Fisheries Marketing	DB: 7 Quiz: 6
Module	Week 9		
9	Oct 20-26	Fisheries Management	DB: 8 Quiz: 7
Module	Week 10		
<b>10</b>	<b>Oct 27-Nov 2</b>	<b>Exam 2</b>	
Module	Week 11		
11	Nov 3-9	Fisheries Tagging Applications	DB: 9 Quiz 8
Module	Week 12		
12	Nov 10-16	Water Quality Monitoring and Macroinvertebrates	DB: 9 Quiz 8
Module	Week 13		
13	Nov 17-23	Aging a Fish	DB: 10 Quiz 9

Module	Week 14		
14	Nov 24-30	Salmonid Identification	DB: 11 Quiz 10
Module	Week 15		
15	Dec 1-7	Dam Removal	DB: 12 No quiz
Module	Week 16		
16	Dec 8 -14	Final Review	No DB or Quiz
Module	Week 17		
17	Dec 15 – 19	Final Exam	

**\*\* THIS IS A TENTATIVE SCHEDULE AND IT IS SUBJECT TO CHANGE.**

## Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodation for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, or bipolar disorder
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- Neurodevelopmental disorders such as a learning disability, intellectual disability, autism, acquired brain injury, or ADHD
- Vision, hearing, or mobility conditions

Available services include extended test time, quiet testing environments, academic assistance and tutoring through the [LIGHT Center](#), counseling and advising, alternate formats of course materials (e.g., audio books, braille, E-texts), assistive technology, learning disability assessments, approval for personal attendants, interpreters, priority registration, on-campus transportation, adaptive physical education and living skills courses, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Student Accessibility Support Services \(SASS\)](#). If you are unsure whether you qualify, please contact Student Accessibility Support Services (SASS) for a consultation: [sass@redwoods.edu](mailto:sass@redwoods.edu).

### SASS office locations and phone numbers

#### Eureka campus

- Phone: 707-476-4280
- Location: Learning Resource Center (Library)

#### Del Norte campus

- Phone: 707-465-2353
- Location: main building, near the Library

Klamath-Trinity campus

- Phone: 707-476-4280