ENR 5355 Aquaculture  
Spring Semester 2021

Instructors:  
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Lecture: Virtual – Wednesdays, 11:30am-1:20pm  
Lecture will be both synchronous (live) and asynchronous (recorded). Students should assume lecture is synchronous unless otherwise announced on Carmen Canvas.

Zoom link to join synchronous virtual lecture:  
https://osu.zoom.us/j/99166757080?pwd=RlhucdlRTQ4U0ZOUjk4RHVwYXhiUT09

Laboratory: Virtual and In-person (See course schedule)  
Section A – Monday, 9:10am-12:10pm, 120 Kottman Hall  
Section B – Thursday, 9:10am-12:10pm, 120 Kottman Hall

Lab schedule (virtual and in-person) is subject to change. Changes will be announced via Carmen Canvas. Virtual labs may be synchronous or asynchronous and details will be provided via Carmen Canvas and the course schedule. Students should be available for synchronous virtual or in-person lab each week.

Zoom link to join synchronous virtual lab:  
https://osu.zoom.us/j/95542323050?pwd=TnFSY1Z4cHdXb3h6dEZLOHVBCUN6dz09

Instructors’ Office Hours: There will be no set office hours. Students should email the instructors to schedule a virtual office hours session via Zoom.

Description:  
Overview of physical, biological and economic factors that influence the development of fish culture systems. Current world and US fish production practices will be compared. Emphasis will be given to propagation of food and recreational fish species and those subjects of conservation efforts.

Course Objectives:  
1. Gain proficiency with identification of production facilities and techniques used in aquaculture worldwide and be able to characterize their operation features and environmental concerns.

2. Acquire general and specialized knowledge of biology, physiology, nutrient requirement, reproduction or diseases of selected fish species cultured in North American and worldwide cultured fish species.
3. Gain practical knowledge and understanding of some basic procedures commonly used in aquaculture practices, such as gametes handling, embryonic development, blood sampling, feeding protocols, etc.

**Required Texts:**
There is no textbook that you are required to purchase for this course. Required readings for each lecture will be posted to Carmen weekly modules as scanned PDFs. Recommended/supplemental readings will also be posted.

**Texts we will be drawing readings from include:**

**Student Evaluation:**

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<thead>
<tr>
<th>Assignment</th>
<th>Course Points</th>
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<tr>
<td>Lecture quizzes</td>
<td>150</td>
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<tr>
<td>Lab assignments/quizzes</td>
<td>250</td>
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<tr>
<td>Aquaculture “farm” project report</td>
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<tr>
<td>Aquaculture “farm” project presentation</td>
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<tr>
<td>Midterm Exam</td>
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<tr>
<td>Final Exam</td>
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<td><strong>Total</strong></td>
<td><strong>1,000</strong></td>
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**Assignments:**

**Lecture quizzes:** 5 lecture quizzes will be given via Carmen throughout the semester. Quizzes will be posted Friday mornings at 9am and must be completed by 11pm that same day. Each quiz will be worth 30 points. Lecture quizzes should be completed independently (students are NOT permitted to work together on lecture quizzes). Students suspected of cheating will be reported to Student Conduct.
Lab assignments: There will be 12 lab assignments over the course of the semester. All lab assignments will be due before the start of your lab section the following week (before 9:10am Monday or Thursday) and submitted via Carmen. Details for each assignment will be posted to Carmen. Assignments will include quizzes, worksheets, reports, and “updates” on the progression of each student’s aquaculture “farm” project. Each lab assignment will be worth a different amount of points. Students are permitted to work together on lab assignments but must submit their own, independent work, written in their own words.

Aquaculture “Farm” Project: Students will complete a semester-long project in which they will be assigned a commercial species for which they will design an aquaculture operation/farm. This project is individual, however, students will be encouraged to work together when appropriate. Each student will develop their “farm” over the course of the semester and will give a Powerpoint presentation to the class (virtual) as well as prepare a report. Presentations will be given the last week of classes, and written reports will be due that same week. Species assignments and project instructions and description will be provided during the 3rd week of the semester.

Exams: Exams will be given via Carmen. Students will be given an 8 hour window in which they may complete the exam, but exams will be time limited (70 minute Midterm, 90 minute Final) and students must complete each exam within the allotted time once they begin. Exams should be completed independently (students are NOT permitted to work together on exams). Students suspected of cheating will be reported to Student Conduct.

Course Schedule:
Course schedule is posted to Carmen. The instructors reserve the right to make changes to the course schedule as they see fit. Any changes will be announced via Carmen and an updated schedule will be posted.

Students with disabilities:
All students with disabilities who need accommodation should contact the instructors to schedule a virtual meeting in order to make appropriate arrangements. Special needs must be discussed and arrangements made well in advance (preferably during the first week of the semester) of when they are required. Special accommodations may be arranged through the OSU Office of Disability Services.