

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Undergraduate Programs</b>		UUPC Approval <u>2/26/24</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	<b>Department</b> Biological Science  <b>College</b> CESCOS <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
<b>Prefix</b> OCB  <b>Number</b> 4722	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i>  <b>Lab Code</b>	<b>Type of Course</b> Lecture	<b>Course Title</b> Culture of Aquatic Organisms
<b>Credits</b> <i>(See Definition of a Credit Hour)</i> 3	<b>Grading</b> <i>(Select One Option)</i> Regular <input checked="" type="radio"/> Sat/UnSat <input type="radio"/>	<b>Course Description</b> <i>(Syllabus must be attached; see <a href="#">Template</a> and <a href="#">Guidelines</a>)</i> This course will expose students to the field of aquaculture (i.e., controlled cultivation of aquatic organisms) through lecture, discussion, and assignments on topics such as culture requirements of aquatic species (mollusks, crustaceans, fish, seaweed), production systems and operation, disease diagnosis and biosecurity, nutrition, business feasibility, and environmental issues.	
<b>Effective Date</b> <i>(TERM &amp; YEAR)</i> Spring 2024	<b>Prerequisites, with minimum grade*</b> None		<b>Corequisites</b> None
		<b>Registration Controls</b> <i>(Major, College, Level)</i>	
<b>*Default minimum passing grade is D-. Prereqs., Coreqs. &amp; Reg. Controls are enforced for all sections of course</b>			
<b>WAC/Gordon Rule Course</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See <a href="#">WAC Guidelines</a> .		<b>Intellectual Foundations Program (General Education) Requirement</b> <i>(Select One Option)</i> None  General Education criteria must be indicated in the syllabus and approval attached to the proposal. See <a href="#">Intellectual Foundations Guidelines</a> .	
<b>Minimum qualifications to teach course</b> PhD in Biology or related discipline			
<b>Faculty Contact/Email/Phone</b> Susan Laramore/slaramo1@fau.edu/772-242-2525		<b>List/Attach comments from departments affected by new course</b>	
<b>Approved by</b> Department Chair <u>Sarah L. Hillman</u> College Curriculum Chair <u>[Signature]</u> College Dean <u>[Signature]</u> UUPC Chair <u>Korey Sorge</u> Undergraduate Studies Dean <u>Dan Meeroff</u> UFS President _____ Provost _____			<b>Date</b> <u>2-1-24</u> <u>2/15/24</u> <u>2/16/24</u> <u>2/26/24</u> <u>2/26/24</u> _____ _____

Email this form and syllabus to [mjennning@fau.edu](mailto:mjennning@fau.edu) seven business days before the UUPC meeting.

## OCB 4722

### Culture of Aquatic Organisms

M, Th 10:40 – 12:00

3 credits

SBTS Spring 2024

Prof. Susan Laramore

Office: Lab II, Rm 104

Office hours: T, TH 1-3 or by appointment

Classroom: HBOI Link Bldg Room 210

Telephone: 772-242-2525

Email: slaramo1@fau.edu



### Course Description

This course will expose students to the field of aquaculture (i.e., controlled cultivation of aquatic organisms) through lecture, discussion, and assignments on topics such as culture requirements of aquatic species (mollusks, crustaceans, fish, seaweed), production systems and operation, disease diagnosis and biosecurity, nutrition, business feasibility, and environmental issues.

**Instructional Method:** In Person

### Course Objectives

- A. Define aquaculture and the importance of aquaculture
- B. Describe natural fisheries and aquaculture trends
- C. Describe different products produced from aquaculture
- D. Describe techniques for rearing aquatic animals and plants
- E. Describe techniques for operating systems to culture aquatic animals and plants
- F. List important criteria in selecting sites, systems and species for aquaculture ventures
- G. Describe disease and health management practices
- H. Outline methods for developing production plans
- I. Describe marketing strategies for aquaculture products.
- J. Describe environmental and food issues pertaining to aquaculture

### Course Evaluation Method

**Exams:** There will be a total of **four (4) written exams**. Exams may be composed of any, or all, of the following: multiple choice, matching, fill in the blank, problem solving and short essay. All exams count and are of equal value (20%) toward your class grade. No exam grade will be dropped and no make-up exams will be given. If an exam is missed with *proper prior* notification, the test may be taken as soon as possible after the exam date, but no later than the following class period. If the exam is not taken a grade of zero (0) will be entered. No extra credit assignments will be given.

**Homework:** Homework assignments may be given periodically. Homework is due at the next class period when it will be reviewed. Homework is worth 2.5% of your grade.

**Quizzes:** Quizzes may be given periodically prior to lecture. Quizzes are worth 2.5% of your grade.

**Project:** Oral presentations will be presented during class on the **April 18**. The project is worth 15% of your grade. Further guidelines will be issued and discussed in class.

## Course Grading Scale

A $\geq$ 94%, A $\geq$ 90%, B $\geq$ 87.5%, B $\geq$ 84%, B $\geq$ 80%, C $\geq$ 77.5%, C $\geq$ 74%, C $\geq$ 70%, D=60-69%, F $\leq$ 59%. All grades will be rounded to the nearest 0.1%, therefore a grade of 93.95% will be rounded to 94.0% (A) and a grade of 93.94% will be a 93.9% (A $\bar{}$ ). Last day to withdraw from class with a "W" is **Friday, 22 March**, and **must be done by the student** at the appropriate FAU office.

Exams count for 80% of your grade. Homework and quizzes count for 5% of your grade. The oral presentation counts for 15% of your grade. Please communicate with your instructor if you know you will not be attending class.

## Policy on Makeup Tests, Late Work, and Incompletes (if applicable)

Communication is KEY! It is important to attend all lectures and hand in assignments in a timely manner. **Two or more unexcused absences** except for death in the family, sick child/spouse, or personal sickness may result in a failing grade, regardless of your test average. University policy dictates that students may not be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Clearly communicate with your Instructor if you must miss class for any University approved reasons. **Religious Accommodations:** Reasonable accommodation may be made for students participating in a religious observance. Students who wish to be excused from course work, class activities or examinations must notify the instructor in advance of their intention to participate in religious observation and request an excused absence.

*Note that an Incomplete ("I") is reserved for students who are passing but have not completed all the required work because of exceptional circumstances.*

## Attendance Policy

*Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.*

## **Classroom Etiquette Policy (if applicable)**

*Cell phones and other personal electronic devices:* The use of cell phones and other personal electronic devices are prohibited during class. All cell phones must be turned off during the class period. If you are emergency personnel (i.e., EMT, fire, or police) you may set phone to vibrate. Any student who uses a cell phone to make or answer a call, **send and read text messages or e-mails** (other than FAU emergency messages), or any other use of personal electronic device during class may be asked to leave and may be considered absent for that class. No student has the right to disturb the teaching and learning process.

*Eating/Drinking:* No food or drink is allowed in the classroom.

## **Policy on the Recording of Lectures (optional)**

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

## **Counseling and Psychological Services (CAPS) Center**

*Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>*

## **Disability Policy**

*In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at [www.fau.edu/sas/](http://www.fau.edu/sas/).*

## **Code of Academic Integrity**

*Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the*

*university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. Cheating or other academic dishonesty for exams and assignments will not be tolerated. For more information, see [University Regulation 4.001](#).*

## **Required Texts**

Required Text: None

## **Supplementary**

Optional Resources:

Fundamentals of Aquaculture by James W. Avault, Jr. AVA Publishing Co., Baton Rouge, LA, 1996.

Aquaculture Interactive, Harbor Branch Oceanographic Institute, Aquaculture Digital Textbook, 2001.

# Course Topical Outline

## OCB 4772 Culture of Aquatic Organisms Syllabus Spring 2024

*Classes Meet from 10:40-12 Monday and Thursday*

<b>WK</b>	<b>Date</b>	<b>Topic</b>	<b>H.W. Assignment</b>	<b>Instructor</b>
1	8-Jan	Syllabus/PreTest/Aquaculture Overview	End of Line/Blue Rev	Laramore
	11-Jan	Article Discussion/Facility Walk Through	Grocery Store Surv	Laramore
2	<b>15-Jan</b>	<b>MLK Day</b>	<b>No Class</b>	<b>NA</b>
	18-Jan	Biosecurity	Water Quality	Laramore
3	22-Jan	Water Resources and Water Quality	Water Quality	Wills
	25-Jan	Water Quality (LAB)	Recir Systems	Laramore
4	29-Jan	Recirculating Systems	Crustaceans	Wills
	1-Feb	Crustacean Culture	Exam Review	Laramore
5	<b>5-Feb</b>	<b>EXAM 1</b>	Reptiles	Laramore
	8-Feb	Reptiles/Amphibians	Bivalves	Laramore
6	12-Feb	Bivalve Culture/Farming Tidelands	Gastropods	Laramore
	15-Feb	Gastropods	Fish	Davis
7	19- Feb	Fish Culture	Aqua Survey	Wills
	<b>22- Feb</b>	<b>IRL Symposium</b>	<b>No class</b>	<b>NA</b>
8	26-Feb	Macroalgal Culture	Exam Review	Hanisak
	<b>29-Feb</b>	<b>EXAM 2</b>	<b>NA</b>	Laramore
9	<b>4 Mar</b>	<b>Spring Break</b>	<b>No class</b>	<b>NA</b>
	<b>7-Mar</b>	<b>Spring Break</b>	<b>No class</b>	<b>NA</b>
10	11-Mar	Aquaponics	Ornamentals	Laramore
	14-Mar	Ornamental Culture	Feeds	Laramore
11	18 Mar	Sustainable Feed Practices	BMPs	Medri
	21-Mar	Best Management Practices	Exam Review	Laramore
12	<b>25-Mar</b>	<b>EXAM 3</b>	Env. Issues	Laramore
	28-Mar	Environmental Issues I (Murky Waters)	Env. Issues	Masterson
13	1-Apr	Environment Issues II (Murky Waters)	Disease	Masterson
	4-Apr	Aquaculture Diseases/Lab	Sustainability	Laramore
14	8-Apr	Sustainability and 3rd Party Certification	IMTA	Laramore
	11-Apr	IMTA	GMOs	Wills
15	15-Apr	ORA Tour/GMOs	NA	Laramore
	18-Apr	Oral Presentations	NA	Laramore
16	22-Apr	<b>TBD</b>	Exam Study	NA

	25-Apr Reading Day	No Class	NA
17	1-May FINAL (10-12:30)	NA	Laramore