

## VALENCIA COLLEGE, West Campus

**Principles of Aquaculture**  
**FALL, 2019**  
**FAS2010C, 3 CREDIT HOURS**  
**Building 1, Room 228 or Green Sky Growers**  
Monday, 5:30 PM to 9:00 PM

**Instructor: DR JASON DANAHER**  
**Office Hours: By appointment**

**Voice Mail: 407-907-4715**  
[jdanaher@valenciacollege.edu](mailto:jdanaher@valenciacollege.edu)

### I. COURSE DESCRIPTION:

This will be a lecture-based, introductory course designed to provide an overview on the current status of aquaculture and its techniques. Emphasis is placed on commonly cultured species, culture methods, and management of water quality and species health. It is designed for undergraduate students who desire a foundation in aquaculture to apply towards more advanced coursework in aquaculture or aquatic sciences.

### II. OBJECTIVES:

1. To evaluate the state of aquaculture internationally and domestically.
2. To become familiar with the basic design, management and operation principles of extensive, semi-intensive and intensive culture facilities.
3. To understand basic culture requirements for common aquaculture species and how optimal conditions are maintained in the various culture systems.
4. To become familiar with practical aspects of aquaculture (feeds and feeding, water quality, production systems, disease prevention, etc.)

### III. VALENCIA STUDENT CORE COMPETENCIES:

**Think** clearly, critically and creatively by analyzing, synthesizing, integrating and evaluating symbolic works and truth claims.

**Value** by understanding your own and others' values from individual, cultural and global perspectives.

**Communicate** by reading, listening, writing and speaking effectively.

**Act** purposefully, reflectively and responsibly by implementing effective problem solving and decision-making strategies.

### IV. DISABILITIES STATEMENT:

Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class; accommodations will not be applied retroactively. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. The Office for Student with Disabilities is located in building SSB, Rm. 102 Phone: 407-582-1523 Fax: 407-582-1326.

### V. WITHDRAWAL DEADLINE AND POLICY:

A student who withdraws from class before the withdrawal deadline of November 1 at 11:59 PM will receive a grade of "W." A faculty member is permitted to withdraw

a student from the faculty member's class up to the beginning of the final exam period, for violation of the faculty member's attendance policy, as published in the faculty member's syllabus. A student is not permitted to withdraw from this class after the withdrawal deadline; if you remain in the class after the withdrawal deadline, you can only receive a grade of A, B, C, D, F or I. An I grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an I, the work missed must be made up during the following semester, at which time you will get an A, B, C, D or F. Failure to make up the work during the following semester will result in you getting a grade of F in the course. Any student who withdraws from this class during a third or subsequent attempt in this course will be assigned a grade of "F."

As the professor I will not withdraw any student for any reason; it is the responsibility of the student to withdraw themselves before the withdrawal deadline and to be aware of the date of the withdrawal deadline. Therefore, it is the student's responsibility to drop or withdraw from the course due to any personal or schedule problems. Students who fail to drop before the deadline established in the curriculum catalogue will receive an F for the course.

Students on financial aid should consult a financial aid advisor or counselor before withdrawing from a course; there may be financial implications to the student, which he or she must know about, to make an informed decision before withdrawing from a course.

#### VI. REFUND OF FEES:

The Drop/Refund deadline is September 3 at 11:59 PM. If done before this deadline you may still be eligible to get back all tuition and refundable fees.

#### VII. TEXTBOOKS:

Recommended:

1. Stickney, R.R.; Aquaculture: An Introductory Text (3<sup>rd</sup> Edition); CAB International: Boston, MA, USA, 2017.
2. Southern Regional Aquaculture Center. Aquaculture Factsheets found online: <https://srac.tamu.edu/>

#### VIII. OFF CAMPUS LOCATION:

This class may also meet at Green Sky Growers, a rooftop farm, located on top of the Garden Building in Winter Garden. The physical address is 146 West Plant Street, Suite 331, Winter Garden, FL 34787. You will be notified ahead of time whether a future class meets on the West Campus or at Green Sky Growers.

#### IX. COURSE EXPECTATIONS:

1. Each assignment must be read prior to class session. Students should be prepared to participate in class discussion pertaining to the assigned material. Feel free to initiate discussion & ask questions.
2. I encourage you to check your email and Canvas at least every other day as I will

be updating Canvas with activities requiring your participation. These activities will be part of your class attendance and/or lab participation.

3. **Class attendance** is required and is the responsibility of the student. *Tardiness disrupts everyone*, so be on time for every class. **Turn off your cell phones.** Laptops and recording equipment may be used during lectures, but if it is found laptops are being used for things other than taking lecture notes the use of them in the classroom will cease.
4. Drinks are allowed in the classroom and lab as long as they remain closed and out of site. Snacks are permitted as long as the odor does not disturb others in the class. Food or drink cannot be consumed in the classroom or lab by students. Periodic breaks may be offered by the instructor to allow for drink, snack or bathroom opportunities. During lecture you may leave and go to the restroom, but lecture will not stop and it is your responsibility to obtain missed material.
5. **Exams:** Failure to take exams or submit out of class work when due will result in zero ("0") credit for the assignment, which will affect the grade accordingly. Any conflicts with the test schedule must be addressed BEFORE the exam date. A basic calculator may be used for exams. A calculator on your phone cannot be used. Bathroom breaks are not permitted during an exam. Please use restrooms prior to starting the exam. Cell phones, laptops or other electronic devices cannot be used during exams. If you are late to an exam and after the first student finishes the exam and leaves the room, no one else will be permitted to sit and take the exam.
6. **Labs:** Activities during lab will be structured to apply aquaculture principles and develop skills for the industry. Some lab exercises may require students to bring a change of clothes to work in an outdoor and/or aquatic environment.
7. Students must complete all coursework or they will be assigned a grade of 0 for anything missing, unless it is an optional assignment. Missing the final exam will result in a grade of 0 for the final exam.

#### X. ATTENDANCE AND TARDY POLICY:

You are expected to attend all class meetings of all courses for which you are registered. Regular attendance and regular class participation are significant factors that promote success in college. Therefore, attendance is required for every class. Students arriving more than 10 minutes late will be marked absent. Students leaving early without approval will be counted absent.

Arrive ON TIME, complete all assignments, and remain in the class for the entire time except for scheduled breaks. Students are responsible for all work presented when they are absent, and are also responsible for any announcements made in class. Communication is critical when you are unable to attend class. If you miss a class due to an emergency, it is your responsibility to find out what was missed.

#### XI. MAKE UP POLICY AND PROCEDURES:

1. Students are expected to bring all course materials, book, pencil/pen, and paper to each and every class. Assignments WILL NOT be accepted late without proper documentation of an emergency (illness, jury duty, etc.) and this will be

at the discretion of the professor. Otherwise, students will receive a zero (0). Hastily written work, without depth or thought, will be returned with a deadline to be redone with points deducted. A zero will be given if the assignment is not resubmitted. Technology problems are no excuse for lateness (for example: "My printer broke...ran out of ink...etc.). Please use the computer labs on campus, when needed.

2. Make-up exams will be given only for emergency situations provided the instructor is notified in advance. Upon your absence and its approval, the exam will be placed in the testing center. You should contact the instructor as soon as you know you are going to miss the exam to request a make-up. A request does not guarantee approval. Exams must be made up before the next class meeting. Any test missed will have adverse effect on your grade, and a make-up test will not be given unless approved by the Professor prior to the date of scheduled test. **Final exam is required!** A no show on that day will result in a score of 0 for the final exam.

## XII. GRADING PROCEDURES AND COMPUTATION:

Lecture Exams:	50% (combined),	200 pts
Class Attendance and Lab Participation	25% (combined),	100 pts
Final Exam	<u>25%</u>	<u>100 pts</u>
<b>TOTAL :</b>	<b>100%</b>	<b>400 pts</b>

**Grades:** A = 100-90, B = 89-80, C = 79-70, D = 69-60

The date for the **Final Exam is December 9 at 5:30 PM** in Building 1, room 228.

## XIII. FACULTY/STUDENT COMMUNICATION:

Feel free to email me. During the week I will normally respond within 24 to 48 hours. If you do not receive a response after 48 hours, please assume I did not receive your email and resend it. Texting is not an accepted form of communication.

Valencia College is committed to providing each student a quality educational experience. Faculty members have set high standards of instruction for themselves and for you. If you have a problem in a class, your first step is to talk to your instructor. If you are still dissatisfied, you may talk with the academic dean of the division for your class. We will work together to resolve any issues that arise.

## XIV. ACADEMIC HONESTY:

Each student is required to follow Valencia policy regarding academic honesty. All forms of academic dishonesty (cheating, plagiarism, forgery, misuse) are prohibited as stated in the Student Code of Conduct and will be disciplined or penalized accordingly. All work submitted by students is expected to be the result of each student's individual thoughts, research, and self-expression unless the assignment specifically states "group project." With the first occurrence of

academic dishonesty, in any form, a student will receive a failing grade for that single assignment/assessment. Proof of a subsequent event of academic dishonesty will result in a failing grade in the class along with a referral to the Dean of Science and the Dean of Students.

**XV. CLASSROOM RULES OF STUDENT BEHAVIOR:**

Any student who engages in any prohibited or unlawful acts that result in the disruption of a class will be directed to leave the class immediately and will not receive any points that day for class participation and/or lab participation. If the actions occur when a test has been administered, the student will immediately leave the class and will have no opportunity to make-up the exam. Violations of any classroom or Valencia rules may lead to disciplinary actions up to and including expulsion from Valencia.

**XVI. SECURITY:**

We want to reassure you that our security officers are here around the clock to ensure the safety and security of the campus community. It is important to remain alert and aware of your surroundings, especially during the early morning or evening hours. Remember that you can always call security for an escort if you feel uncomfortable walking alone on campus. White security phones can also be found in many of our buildings; simply pick up the phone and security will answer. Finally, report any suspicious persons to West Campus Security at 407-582-1000, 407-582-1030 (after-hours number) or by using the yellow emergency call boxes located on light poles in the parking lots and along walkways.

**XVII. BAYCARE BEHAVIORAL HEALTH'S STUDENT ASSISTANCE PROGRAM:**

Valencia is committed to making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. Students have 24-hour unlimited access to the BayCare Behavioral Health's confidential student assistance program phone counseling services by calling (800) 878-5470. Three free confidential face-to-face counseling sessions are also available to students.

Students who have been sexually assaulted on campus should immediately contact campus security and can contact the Victim Service Center's Sexual Assault Hotline at 407-497-6701 or at [www.victimservicecenter.com](http://www.victimservicecenter.com)

**XVIII. CHANGES TO THE COURSE SYLLABUS:**

The course outline and syllabus are subject to change as needed. Changes will be announced in class, by using ATLAS email and/or Canvas in a timely manner, when necessary. Your continued participation in this course after the drop-add deadline period constitutes an agreement with and an acceptance of the conditions presented in this syllabus.

### CLASS SCHEDULE

WEEK	Date	LECTURE	LAB
1	August 26	CLASS WILL NOT MEET	SEE CANVAS ACTIVITIES
2	September 2	<b>LABOR DAY</b>	
3	September 9	INTRODUCTION TO AQUACULTURE	RETAIL MARKET REPORT
4	September 16	FISH NUTRITION AND FEEDING	FEEDING FISH
5	September 23	WATER QUALITY AND MANAGEMENT	WATER SAMPLING & HANDHELD METERS
	September 30	<b>EXAM 1</b>	
6	October 7	COMMON CULTURED SPECIES	FISH DISSECTION
7	October 14	POND CONTRUCTION & WEED CONTROL	CALCULATING POND/TANK VOLUMES
8	October 21	POND PRODUCTION MANAGEMENT	
9	October 28	POND CAGES AND OCEAN NET PENS	
10	November 4	<b>EXAM 2</b>	
11	November 11	<b>VETERANS DAY</b>	
12	November 18	RECIRCULATING AQUACULTURE SYSTEMS	GREEN SKY GROWERS
13	November 25	PATHOGENS: PREVENTION & TREATMENT	SRAC VIDEO
14	December 2	CAREER OPPORTUNITIES IN AQUACULTURE <b>FINAL EXAM REVIEW</b>	
15	<b>December 9</b>	<b>FINAL EXAM – CUMULATIVE</b>	