

- Write a grammatically perfect, technically informed, well-structured document on a chosen graduate topic in aquaculture
- Deliver a professional, formal presentation on an aquaculture topic to a graduate audience

V. REQUIRED TEXTS AND MATERIALS:

No book is required; however, some of the books listed below cover some of the topics discussed. Books 1-3 are general aquaculture books. Book 4 may be helpful for practical components of the class:

1. Lucas J.S. and Southgate, P.C. Aquaculture, farming aquatic animals and plants. Wiley-Blackwell
2. Tidwell, J.H. Aquaculture Production Systems. Wiley-Blackwell.
3. Parker R. Aquaculture Science. Delmar Cengage Learning.
4. Hoff F.H. and Snell T. W. Plankton Culture Manual. Florida Aqua Farms, Inc.

VI. COURSE SCHEDULE AND TOPIC OUTLINE:

Date	Topic
March 28	Course presentation (introduction and explanation of student’s project) Aquaculture definition Purpose: Commercial (Food and Ornamental), Research, Restoration Brief historical perspective and current status Aquaculture production systems
March 31	Conditioning factors: water quality, temperature, salinity, pH, turbidity, oxygen, disease/prophylaxis and nutrition through the life cycle (live vs. processed food) Water quality and treatment
April 4	Culture: Microalgae and Macroalgae culture Auxiliary cultures: Artemia, rotifers and copepods Enrichment processes
April 7	Culture: Bivalve and Gastropod Mollusca Culture: Crustaceans (shrimp, lobsters, crabs, crayfish)
April 11	Culture: Fish
April 14	Presentation of Students’ Projects: Culture of marine animals for research or ornamental industry
April 18	Culture: Coral and Reptiles Aquaculture Business Environmental Impacts Hand-in written component of the Project
April 21	Final

Readings for each class will be posted on Blackboard at least 5 days prior to each class and are mandatory. Note: This is a tentative schedule that may be changed. Students will be provided a minimum one week advance notice of any change when possible.

VII. GRADING CRITERIA

Final: 40% (covers all lectures from the first to last class: combination of multiple choice, short answer and short-essay questions)

Homework: 20%

Classroom participation: 20% (quantity of quality interventions)

Project: 20% (10% written + 10% presentation/video).

PROJECT:

- Each student will research the methodology(ies) available to culture in each stage of the life cycle (reproduction, larval culture, juvenile growth-out) of one species used in research or ornamental industry, including production system(s) used, abiotic and biotic rearing conditions, nutrition needs and feeding regime.
- The written component of the project should have a **4-5 pages (Times New Roman, font size 12, 1.15 spacing**, it may include figures) plus references (list all your references following the format of the journal *Aquaculture*).

Reference formatting

Within the text: All citations in the text should refer to:

1. Single author: the author's name (without initials, unless there is ambiguity) and the year of publication;
2. Two authors: both authors' names and the year of publication;
3. Three or more authors: first author's name followed by 'et al.' and the year of publication.

Citations may be made directly (or parenthetically). Groups of references should be listed first alphabetically, then chronologically.

Examples: 'as demonstrated (Allan, 2000a, 2000b, 1999; Allan and Jones, 1999).

Kramer et al. (2010) have recently shown'

References list: References should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication. Examples:

Reference to a journal publication:

Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. *J. Sci. Commun.* 163, 51–59.

Reference to a book:

Strunk Jr., W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), Introduction to the Electronic Age. E-Publishing Inc., New York, pp. 281–304.

- The project can be presented using Powerpoint or ideally a previously recorded video. Each presentation should last **10 minutes**.

VII. COURSE REQUIREMENTS AND POLICIES:

ATTENDANCE

As a requirement for accreditation, regular attendance is necessary. Each professor has the responsibility to enforce class attendance. To fulfill this requirement, students must have logged in, accessed, and/or interacted with the majority of online course requirements (e.g. assignment submissions, asynchronous discussion) by the first week of the session or they may be withdrawn from the course by the instructor through the Program Office. For this reason, if students anticipate or encounter any reason why they may be unable to engage with their online coursework for an extended period during a term, they must communicate this to their instructor and the Program Office as soon as possible. Students do have the option of requesting an Incomplete; if this is granted by their instructor, they then have 3-months from the end of the term date to submit the required course work as decided with the instructor. An incomplete grade agreement form must be completed and filed with the distance education office. An instructor reserves the right to request original written documentation to substantiate any such absences. A falsified excuse is cause for disciplinary action. An Incomplete course graded I must be completed in one semester or the grade is changed to F. All students are referred to the section

3.5.2. of the Oceanographic Center catalog (<http://nova.edu/ocean/forms/nsuoc-2014-2015-catalog.pdf>) for details on course withdrawals and refunds.

ACADEMIC HONESTY

In order to ensure the highest standards of academic honesty and ethical behavior, the NSU policies on cheating and plagiarism will be strictly enforced. See the NSU Student Handbook for more information at <http://www.nova.edu/cwis/studentaffairs/forms/ustudenthandbook.pdf>. I am empowered by the policy to penalize a student suspected of academic dishonesty, plagiarism, or otherwise misrepresenting work and I will do so and report that student to the Dean of the OC. Nova Southeastern University has contracted with **turnitin.com** to provide plagiarism detection services, and I will submit any suspicious documents to this service.

The use of cell phones, or any other electronic devices not specifically allowed by me, during an exam is not permitted. The use of such devices for any reason will be assumed to be for the purposes of cheating and will result in your dismissal from class and administrative action up to permanent expulsion from all NSUOC programs. If you need the phone for emergency

notifications, or the like, leave the phone with me or the proctor at the start of class. You will be immediately notified if there is an incoming call.

EXPECTATIONS

You can expect that I will arrive on time for lectures and be well prepared. You can expect that I will be clear about my expectations and the criteria I use in assigning grades and that I will be fair and equitable. I will treat everyone in the class with consideration and respect.

I expect you to come to class, arrive on time, and be prepared for lecture and lab. I expect you to turn off your cell phones, pagers, and hand-held electronic devices as a gesture of reciprocal respect. If you bring a computer to class, I expect you to use it to take notes and record classroom information. I expect you to stay awake, take notes, participate in discussions and ask questions. I expect you to turn in your assignments on time and in good condition.

X: UNIVERSITY-WIDE POLICY STATEMENTS

A. Academic Misconduct: Academic misconduct appears in a variety of forms (including plagiarism). It is a violation of NSU academic policy and may be punished in a variety of ways, from failing the assignment and/or the entire course to academic probation, suspension or expulsion. If you have questions about what constitutes academic misconduct before handing in an assignment, see your instructor or the NSU Student Handbook at <http://www.nova.edu/cwis/studentaffairs/forms/ustudenthandbook.pdf>.

B. ADA Policy: Nova Southeastern University provides accommodations for students with documented disabilities. If you have a disability for which you believe you require accommodation, please contact Academic Services (<http://www.nova.edu/disabilityservices/>, 954-262-7189).

C. Last Day to Withdraw: You will be able to obtain a full refund of your tuition before session II begins, and 75% refund before the end of the 1st week of Session II. There will be no refund after that date. None of the lab fees is refundable. It is your responsibility to formally withdraw by completing the appropriate forms to obtain a refund (<http://www.nova.edu/ocean/coursepolicy.html>). A request for tuition refund must be made in writing at the time of withdrawal. Refunds will be made solely at the option of the university and will be based on the legitimacy of the reason for withdrawal. Should you fail to appropriately withdraw from this course, and then earn a grade below your expectations, I will do what I can to see that the grade is reported on your transcript.

D. Email Policy: All email communications between students and faculty must be conducted via NSU email accounts (<http://www.nova.edu/common-lib/policies/emailcomm.policy.html>). This requirement will assist NSU in communicating more effectively and protecting your privacy. Emails sent to faculty from non-NSU accounts will be returned to the sender with instructions to resend the communication from your NSU account. To set up an NSU email account or to get help with an existing account, go to <https://www.nova.edu/>

[sbin/account request](#). Also, the computer help desk is available to assist you with questions regarding your NSU email account. It can be reached at 954-262-HELP (4357).

E. Student Course Evaluations: Student comment and feedback evaluating each college class is an important tool to evaluate program effectiveness. Participation in this process is a responsibility of each student.

F. Grading System

The following system is used to grade academic performance:

GRADE	Percent grade	DESCRIPTION
A	93-100	Excellent
A-	90-92	Very Good
B+	87-89	Good
B	83-86	Satisfactory
B-	80-82	
C+	77-79	
C	73-76	Marginal Pass
C-	70-72	
D+	67-69	
D	65-66	Poor
F	0-64	Failure
W		Withdrawal: Given after the third class week or termination by the instructor for non-completion of the course by the student.
I		Incomplete: Given when most (80 percent), but not all, work has been completed.
Au		Audit
P		Pass

A grade of incomplete (I) must be requested from the instructor, have the Associate Dean’s approval, and be accompanied by a **completed contract specifying outstanding course requirements and completion dates**. Completion of the course graded incomplete must occur within one semester (or 3 months) of the end of the course and the incomplete be changed to a different grade. If the course is not completed in 3 months, or the student has not withdrawn and received a W, the incomplete will automatically be converted to a grade of F. Under unusual circumstances students may request a time-extension to complete the course. Such requests must be submitted to, and approved by, the Associate Dean of Academic Programs prior to the end of the 3-month time limit. **There are no exceptions to this rule. Securing the completed and signed incomplete contract forms is the responsibility of the student.**