Complete Course Title: Advances in Finfish Aquaculture

Credits: 3


Course Description, No More Than Three Lines: Through lecture and readings explore issues affecting finfish aquaculture for food production and fisheries stock enhancement worldwide. Topics will include sustainability, new and historic methods for fish culture, and issues and controversies faced by finfish aquaculturists.

Prerequisites*: Culture of Marine Organisms or permission of the instructor

Minimum Qualifications Needed to Teach This Course: Ph.D. in the Relevant Field

Faculty contact, email and complete phone number:
Dr. Paul Wills
pwills2@fau.edu
(772) 242-2454

Please consult and list departments that might be affected by the new course and attach comments.

Approved by:

Department Chair: [Signature]

College Curriculum Chair: [Signature]

College Dean: [Signature]

UGPC Chair: [Signature]

Graduate College Dean: [Signature]

UFS President: [Signature]

Provost: [Signature]

Date: 1/30/14

1. Syllabus must be attached; see guidelines for requirements: 

2. Review Provost Memorandum: Definition of a Credit Hour 
   www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. Consent from affected departments
   (attach if necessary)
Email this form and syllabus to UGPC@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.
Course Syllabus for Advances in Finfish Aquaculture

1. **Course title/number, number of credit hours**
   Advances in Finfish Aquaculture – BSC 6530 – 3 credit hours

2. **Course prerequisites**
   a. Culture of Marine Organisms (no course number, newly proposed course)
   or
   b. Permission of the instructor

3. **Course logistics**
   a. Term – Spring 2015
   b. Notation if online course – N/A
   c. Class location and time (if classroom-based course) – To be determined

4. **Instructor contact information**
   a. Instructor’s name – Paul Wills
   b. Office address – HBOI - ACTED
   c. Office hours – To be determined
   d. Contact telephone number – office (772) 242-2454 fax (772) 466-6590
   e. E-mail address – pwills2@fau.edu

5. **TA contact information (if applicable)**
   N/A

6. **Course description**
   In this course students will explore new and timely concepts and issues in finfish aquaculture in general and in marine aquaculture specifically. The course will explore new techniques for sustainable aquaculture development, finfish aquaculture for stock enhancement, and issues and controversies that face finfish aquaculturists world-wide.

7. **Course objectives/student learning outcomes**
   This course aims to move students from fundamental concepts in finfish aquaculture into a discussion of trends in technology development, issues and controversies facing contemporary finfish aquaculturists producing fish as food and for stock enhancement.

   Students will be able to:
   1) Identify issues and controversies facing finfish aquaculturists
   2) Develop research and critical thinking skills necessary to evaluate solutions and directions to address emerging issues
   3) Compare and contrast concepts related to production of finfish for commercial and natural resource requirements.
8. **Course evaluation method**
There will be graded assignments (i.e., assigned reading summaries, and a research paper with presentation) accounting for 40% of the student’s cumulative performance, exam 1, accounting for 30% of the student’s cumulative performance, exam 2 that accounts for 30% of the cumulative performance. The overall grade in the course is derived from the cumulative performance according to the following table.

9. **Course grading scale (optional)**

<table>
<thead>
<tr>
<th>Cumulative Performance</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;94%</td>
<td>A</td>
</tr>
<tr>
<td>&gt;90% - 94%</td>
<td>A-</td>
</tr>
<tr>
<td>&gt;87% - 90%</td>
<td>B+</td>
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<tr>
<td>&gt;83% - 87%</td>
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<td>&gt;80% - 83%</td>
<td>B-</td>
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<td>&gt;75% - 80%</td>
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<tr>
<td>&gt;57% - 60%</td>
<td>D+</td>
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<tr>
<td>&gt;53% - 57%</td>
<td>D</td>
</tr>
<tr>
<td>&gt;50% - 53%</td>
<td>D-</td>
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<tr>
<td>&lt;50%</td>
<td>F</td>
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10. **Policy on makeup tests, late work, and incompletes**
If a student cannot attend an exam or hand in a homework project on time due to circumstances beyond their control then the instructor may assign appropriate make-up work. Students will not be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. These students will be allowed to make up missed work without any reduction in the student’s final course grade. Reasonable accommodation will also be made for students participating in a religious observance. Also, note that grades of Incomplete (“I”) are reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. A grade of “I” will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU’s University Catalog. The student must show exceptional circumstances why requirements cannot be met. A request for an incomplete grade has to be made in writing with supporting documentation, where appropriate.

11. **Special course requirements (if applicable)**
N/A

12. **Classroom etiquette policy (if applicable)**
University policy on the use of electronic devices states: “In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.”
13. **Disability policy statement**
In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) -- in Boca Raton, SU 133 (561-297-3880); in Davie, MOD 1 (954-236-1222); or in Jupiter, SR 117 (561-799-8585)-- and follow all OSD procedures.

14. **Honor Code policy statement**
Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, 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. For more information, see University Regulation 4.001 at [http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf](http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf)

15. **Required texts/readings**


16. Supplementary/recommended readings (optional)
17. Course topical outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Homework</th>
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<tbody>
<tr>
<td>1</td>
<td>Overview of Finfish Aquaculture</td>
<td>Read #1 and 2 from List</td>
</tr>
<tr>
<td>2</td>
<td>Sustainability in Aquaculture Production</td>
<td>Read #3 and 4 from List</td>
</tr>
<tr>
<td>3</td>
<td>Regulations, Best Management Practices, and Standards and Certification</td>
<td>Topic Statement For Research Paper Due; Read # 5 from List</td>
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<tr>
<td>4</td>
<td>Economic Issues in Aquaculture production</td>
<td>Read #6 and 7 from List</td>
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<tr>
<td>5</td>
<td>Fish Health, Drugs, Therapeutants, and Vaccines</td>
<td>Summaries for Papers #1-7 due</td>
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<td>6</td>
<td>Food Safety and Food Security</td>
<td>Research Paper Outline Due</td>
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<tr>
<td>7</td>
<td>Exam 1</td>
<td>Read # 8 and 9</td>
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<tr>
<td>8</td>
<td>Emerging Production Technologies</td>
<td>Read #15 and 17</td>
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<tr>
<td>9</td>
<td>Aquaculture for Stock Enhancement</td>
<td>Reference List For Research Paper Due</td>
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<tr>
<td>10</td>
<td>Genetic Technology and Issues in Food Fish Production</td>
<td>Read #10 and 12</td>
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<tr>
<td>11</td>
<td>Ecological and Genetic Issues in Stock Enhancement</td>
<td>Read #13 and 22</td>
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<tr>
<td>12</td>
<td>Nutrition and, Feed Ingredient Issues in Food Fish Production</td>
<td>Read #</td>
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<tr>
<td>13</td>
<td>Emerging Species</td>
<td>Summaries for papers listed between #8 and #23 due; Read #23</td>
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<tr>
<td>14</td>
<td>Public perception of Aquaculture</td>
<td>Research Paper Due</td>
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<tr>
<td>15</td>
<td>Student term paper presentations</td>
<td>N/A</td>
</tr>
<tr>
<td>16</td>
<td>Exam 2</td>
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</tbody>
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