This course is available for student registration only after the approval process has been completed.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No.</th>
<th>Credit Hours</th>
<th>Term to be Added to the File</th>
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<tbody>
<tr>
<td>BIO</td>
<td>4100</td>
<td>3</td>
<td>Fall 2016</td>
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</table>

Requirements: 1000 levels and co- or prerequisites. Requires Junior Standing.

<table>
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<tr>
<th>Class Hours</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Contact Hours (CEU Only)</th>
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Department: Biological Sciences

Schedule Type: Special Topics (S)

Catalog Title: Special Topics in Biology

Catalog Description: Restricted to 25 characters, including spaces

Topics in Biology

This description has been approved by the catalog office.

In addition, please attach a course syllabus and/or more detailed description.

Restrictions: Prerequisite: Course Number. Corequisite: Course Number.

Grades to be Issued: A, B, C, D, F. A, B, C, D, F. CE/audit.

Additional Restrictions: Junior Standing.

If this course replaces a course currently offered in Banner, please indicate old course information and the date/term the course may be removed from the system.

Subject: Alpha Prefix (e.g., CSE) Course No. (e.g., 1301) Term to Inactivate.

Yes | No | Will this course be used to measure program level student learning outcomes? If yes, review and signature required.

Yes | No | Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

Yes | No | Will this course impact any existing program? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

Approvers: On completion of description and course number verification, affix appropriate signatures as indicated, and submit completed form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval.

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<tr>
<th>Originator</th>
<th>Date</th>
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<tr>
<th>Department Head/Program Chair</th>
<th>Date</th>
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Catalog Director

These changes/additions have been made for the University Catalog and entered into the Banner Term named above.

Registrar’s Use Only

SCASCE SCADTL SCAPREQ SCABASE SCABIES Operator Init. Date

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8111 • Fax (321) 674-7827
BIO- 4XXX Functional Biology of Marine Organisms  
Instructor: Richard L. Turner  

Spring 2016

SYLLABUS

Course Description. Lectures and discussions on how microbes, plants, and animals have adapted to accomplish life functions in the sea.

Prerequisite. BIO-4710 Marine Biology.

Resources. Primary and review literature selected by instructor and students.

Schedule. Tuesdays, lecture; Thursdays, paper discussion.

Weekly Lecture and Discussion Topics.
Week 1: The Great Marine Invasions
Week 2: Osmoregulation
Week 3: Buoyancy
Week 4: Vision and Transparency
Week 5: Marine Bioluminescence
Week 6: Life Histories and Dispersal
Week 7: Chemical Ecology and Toxicology
Week 8: Marine Diseases
Week 9: Buoyancy
Week 10: Swimming Biomechanics
Week 11: Deep Diving
Week 12: Primary Production
Week 13: Feeding Strategies
Week 14: Student Presentations
Week 15: Student Presentations

Exams. Two exams will be scheduled for Thursdays during the 15-week semester. The third exam will be held during final exam week.

Term Paper.
A review of a topic on some aspect of the functional biology of marine organisms based on individual search of primary literature and general sources. Topic must be approved in advance by the instructor. Deadline for topic is Thursday, Week 4, for term paper, Thursday, Week 13.

Grading.
Exams (3 @ 200 each) 600
Class participation in discussions 100
Oral presentation of term paper 100
Written term paper 200
Total 1000 points
A, 90-100%; B, 80-89%; C, 70-79%; D, 60-69%; F, <60%