Additional Information

MARE 357: Advances in Molluscan Biology
MARE 957: Advanced Topics in Molluscan Biology

Summer Course - 2007

School of Biological Sciences
University of Wollongong

Background

The School of Biological Sciences at the University of Wollongong, in collaboration with the Australian Museum, will again host a summer course in Molluscan Biology from the 3rd of Dec. until the 14th Dec. 2007.

This subject is open to students who satisfy the pre-requisite for entry of an introductory invertebrate subject at 2nd year level. At the University of Wollongong, this subject is BIOL241.

MARE357 is an 8 credit-point, 3rd Year level subject in the Science Faculty at the University of Wollongong. As such, it represents 1/6 of a year’s work at 3rd Year level. Students at the University of Wollongong can simply enrol in this subject as part of their degree. Students from other Universities can enrol in this subject as external students (considerable cost) or as credit-transfer students (within HECS). The Postgraduate subject MARE957 is for Masters by Research or Coursework students. It constitutes 12 credit points (1/4 of a year’s work) and will include additional assessment items.

Applying for admission

These are restricted entry subjects with a quota of 20 students in total. As there may be more applicants than places, there will be a selection process as follows:

1. Students make an application on the application form.

2. Students submit the form and associated papers to the following address by Friday 21st Sept. 2007 (end of Week 9).

   Associate Professor Andy Davis
   School of Biological Sciences
   University of Wollongong
   Wollongong, NSW, 2522
   Ph:  (02) 4221 3432
   Fax:  (02) 4221 4135

3. Students are then ranked and selected on the basis of academic record and other material requested in the application form.

4. Student informed of acceptance into subject (or reserve list) by Friday 5th Oct. (end of Week 10)

5. Student who are selected then complete enrolment via the WEB, by the Summer Session deadline.
<table>
<thead>
<tr>
<th>TIMETABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Following</strong></td>
</tr>
<tr>
<td><strong>enrolment</strong></td>
</tr>
<tr>
<td><strong>Dec. 3-7</strong></td>
</tr>
<tr>
<td><strong>Wollongong</strong></td>
</tr>
<tr>
<td><strong>Dec. 7-9</strong></td>
</tr>
<tr>
<td><strong>South Coast</strong></td>
</tr>
<tr>
<td><strong>Dec. 10-14</strong></td>
</tr>
<tr>
<td><strong>Wollongong</strong></td>
</tr>
<tr>
<td><strong>Dec. 14</strong></td>
</tr>
<tr>
<td><strong>Dec. 21</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACCOMMODATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is an intensive residential course and students not from the University of Wollongong are advised to stay near Campus. Accommodation near campus with all meals can be provided by a University Hall of Residence - Campus East (<a href="http://www.uow.edu.au/about/accommodation/campus_east/">http://www.uow.edu.au/about/accommodation/campus_east/</a>). Please inform Andy Davis should you wish to book accommodation here for the duration of the subject.</td>
</tr>
</tbody>
</table>
Subject Number: MARE357
Subject Name: Advances in Molluscan Biology
Session(s) on offer or Intake Session: Summer
Method of Delivery: Lectures/practicals
Location: Wollongong Campus*
Contact Hours per wk
(Indicate L/T/Sem split; lab; fieldwork etc):
10hrs Lectures/Tutorials per week for 2 weeks
20hrs practicals & field excursions per week for 2 weeks
Credit Points: 8 credit points
Pre-Requisite(s): BIOL241 (or equivalent)
Co-Requisite(s): nil
Assumed Knowledge: Basic understanding of invertebrate biology
Equivalent Subject(s): nil
Textbook or Learning Package: Anderson (2001) Invertebrate Zoology
Subject Co-ordinator: Assoc. Prof. Andy Davis
Departmental/Program Shares (% by Department/Program area): 100% Biological Sciences
Course Structures for which subject accrues credit points:
Bachelor of Science
Bachelor of Marine Science

* This subject may run ‘offshore’ on occasions

Content:

This subject will provide an overview of molluscan biology, diversity and phylogeny. It will also examine the role of molluscs in fisheries, aquaculture, as pests and as carriers of disease. Consideration will be given to these aspects of molluscan biology worldwide, but there will also be a focus on the largely endemic Australian fauna. Each of the major groups of molluscs will be examined, including polyplacophorans (chitons), bivalves (e.g. clams and oysters), gastropods (e.g. slugs and snails) and finally the cephalopods (including octopuses & squid). For each group, their conservation, ecology, biology and evolutionary relationships will be addressed, with important current issues and research directions highlighted. The course will provide training in field techniques, identification, lab studies including dissection and accessing resources. It will include the observation and collection of molluscs in a variety of habitats, including the rocky shore, estuarine and rainforest environments. Literature examining contemporary research in molluscs will also be reviewed.

Outcomes:

On successful completion of this subject, students will:
1. appreciate the diversity of Mollusca in Australia and worldwide
2. understand the morphological and biological differences between the major groups of Mollusca and the characters important for identification
3. understand the basis of the phylogenetic relationships (and hence classification) of Mollusca
4. appreciate the role of molluscs in human culture, including fisheries, aquaculture, as pests and as carriers of disease
5. appreciate the role of molluscs in ecological, biological and evolutionary research
6. understand selected research methods relating to the biology and ecology of molluscs
7. analyse and obtain morphological and other data in an appropriate manner and present these effectively in both written, verbal and graphic formats
8. show concern for accuracy, precision, honesty, for the organisms under study, and for the safety and welfare of others in the laboratory or field (OHS awareness)
9. use computers for data analysis and graphical presentation
10. critically evaluate information sources and demonstrated ability to synthesise literature
1. **SUBJECT INFORMATION – MARE957**

<table>
<thead>
<tr>
<th>Subject Number:</th>
<th>MARE957</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Name:</td>
<td>Advanced topics in Molluscan Biology</td>
</tr>
<tr>
<td>Session(s) on offer OR Intake Session:</td>
<td>Summer</td>
</tr>
<tr>
<td>Method of Delivery:</td>
<td>Lectures/practicals</td>
</tr>
<tr>
<td>Location:</td>
<td>Wollongong Campus*</td>
</tr>
<tr>
<td>Contact Hours per wk (Indicate L/T/Sem split; lab; fieldwork etc):</td>
<td>10hrs Lectures/Tutorials per week for 2 weeks 20hrs practicals &amp; field excursions per week for 2 weeks</td>
</tr>
<tr>
<td>Credit Points:</td>
<td>12 credit points</td>
</tr>
<tr>
<td>Pre-Requisite(s):</td>
<td>BIOL241 (or equivalent)</td>
</tr>
<tr>
<td>Co-Requisite(s):</td>
<td>nil</td>
</tr>
<tr>
<td>Assumed Knowledge:</td>
<td>Basic understanding of invertebrate biology</td>
</tr>
<tr>
<td>Equivalent Subject(s):</td>
<td>nil</td>
</tr>
<tr>
<td>Textbook or Learning Package:</td>
<td>Anderson (2001) Invertebrate Zoology</td>
</tr>
<tr>
<td>Subject Co-ordinator:</td>
<td>Assoc. Prof. Andy Davis</td>
</tr>
<tr>
<td>Departmental/Program Shares (% by Department/Program area):</td>
<td>100% Biological Sciences</td>
</tr>
<tr>
<td>Course Structures for which subject accrues credit points:</td>
<td>Master of Science (Biological Sciences) Research  Master of Science (Biological Sciences)</td>
</tr>
</tbody>
</table>

* This subject may run ‘offshore’ on occasions

**Content:**

This subject will provide an overview of molluscan biology, diversity and phylogeny. It will also examine the role of molluscs in fisheries, aquaculture, as pests and as carriers of disease. Consideration will be given to these aspects of molluscan biology worldwide, but there will also be a focus on the largely endemic Australian fauna. Each of the major groups of molluscs will be examined, including polyplacophorans (chitons), bivalves (e.g. clams and oysters), gastropods (e.g. slugs and snails) and finally the cephalopods (including octopuses & squid). For each group, their conservation, ecology, biology and evolutionary relationships will be addressed, with important current issues and research directions highlighted. The course will provide training in field techniques, identification, lab studies including dissection and accessing resources. It will include the observation and collection of molluscs in a variety of habitats, including the rocky shore, estuarine and rainforest environments. Literature examining contemporary research in molluscs will also be reviewed (tailored to the specialisations of MSc students enrolled in the subject).

**Outcomes:**

On successful completion of this subject, students will:

1. appreciate the diversity of Mollusca in Australia and worldwide
2. understand the morphological and biological differences between the major groups of Mollusca and the characters important for identification
3. understand the basis of the phylogenetic relationships (and hence classification) of Mollusca
4. appreciate the role of molluscs in human culture, including fisheries, aquaculture, as pests and as carriers of disease
5. appreciate the role of molluscs in ecological, biological and evolutionary research
6. understand selected research methods relating to the biology and ecology of molluscs
7. analyse and obtain morphological and other data in an appropriate manner and present these effectively in both written, verbal and graphic formats
8. show concern for accuracy, precision, honesty, for the organisms under study, and for the safety and welfare of others in the laboratory or field (OH & S awareness)
9. use computers for data analysis and graphical presentation
10. critically evaluate information sources and demonstrated ability to synthesise literature