School of Biological Sciences

MARE393 Advanced Marine Science Project
Subject Outline
Autumn, 2016
On-Campus
Wollongong

Subject Information
Credit Points: 8
Pre-requisite(s): Distinction average or higher performance in subjects pertinent to the intended area of research as approved by the Marine Science Coordinator
Co-requisite(s): Nil
Restrictions: Offered only to students in the Bachelor of Marine Science, and subject to availability of a research supervisor. Evidence of 'fitness' is required if work involves snorkelling, SCUBA, use of boats or inter-tidal work.
Contact Hours: minimum of 10 hrs per week, but no lectures or labs required

Subject Contacts
Subject Coordinator/Lecturer
Name: Prof Andy Davis
Location: Building 35, Room G01D
Telephone: 61 2 4221 3432
Email: andy_davis@uow.edu.au

Lecturer/Demonstrator/Tutor
Name: Dr Marian Wong
Location: Building 35, Room 124
Telephone: 61 2 4221 3574
Email: marian_wong@uow.edu.au
Consultation mode and times: Email for appointment

Project Supervisor
It is the responsibility of the student to identify a suitable research supervisor and project to be undertaken as the core component of this subject. Students should contact the subject coordinator in the first instance for advice, and then consult various potential supervisors for an outline of projects that are on offer. Prospective students are encouraged to discuss possible projects with a range of potential supervisors before deciding on a project. A useful starting point is the school website which outlines the research interests of all members of academic staff. A project and supervisor must be agreed with the subject coordinator no later than the first week of the session in which the project is to be undertaken. Supervision of a project will depend in part on the availability of resources.
Student Support and Advice
For general enquiries please contact the StudentHub 41:
Location: 41.138B
Telephone: 61 2 4221 3492
Email: smah-students@uow.edu.au

Student Consultation and Communication
University staff receive many emails each day. In order to enable them to respond to your emails appropriately and in a timely fashion, students are asked to observe basic requirements of professional communication.

Please ensure that you include your full name and student number and identify your practical class or tutorial group in your email so that staff know who they are communicating with and can follow-up personally where appropriate.

Consider what the communication is about
- Is your question addressed elsewhere (e.g. in the subject outline or, on the eLearning site)?
- Is it something that is better discussed in person or by telephone? This may be the case if your query requires a lengthy response or a dialogue in order to address. If so, see consultation times above and/or schedule an appointment.
- Are you addressing your request to the most appropriate person?

Specific email subject title to enable easy identification of issue
- Identify the subject code of the subject you are enquiring about (as staff may be involved in more than one subject) put this in the email subject heading. Add a brief, specific query reference after the subject code where appropriate.

Professional courtesy
- Address the staff member appropriately by name (and formal title if you do not yet know them).
- Use full words (avoid ‘text-speak’ abbreviations), correct grammar and correct spelling.
- Be respectful and courteous.
- Allow 3 – 4 working days for a response before following up. If the matter is legitimately urgent, you may wish to try telephoning the staff member (and leaving a voicemail message if necessary) or inquiring at the School Office.
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Section A: General Information

Subject Learning Outcomes

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<tr>
<th>Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Working knowledge of the subject area of their research project;</td>
</tr>
<tr>
<td>2. Ability to design and carry out a small research project;</td>
</tr>
<tr>
<td>3. Knowledge of a range of laboratory or field techniques relevant to the project,</td>
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<tr>
<td>and understanding of the principles underlying the techniques;</td>
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<tr>
<td>4. Aptitude for critical reading of published literature, and ability to</td>
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<tr>
<td>synthesise knowledge and techniques from published sources;</td>
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<tr>
<td>5. Understanding of some basic concepts in Marine Science;</td>
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<tr>
<td>6. Ability to present experiments, results and interpretations clearly and</td>
</tr>
<tr>
<td>concisely in written reports and as seminar presentations.</td>
</tr>
</tbody>
</table>

Subject Description

One research project will be undertaken after consultation with academic staff. Students will attend and participate in a seminar/tutorial program in either the School of Biological Sciences or the School of Earth and Environmental Sciences. Research may be a discrete component of a larger project in which the emphasis will be on solving a larger problem as part of a research team. Projects will focus on developing competence in a laboratory and/or field techniques. Intending students should consult the Coordinator before enrolment.

eLearning Space

This subject has materials and activities available via eLearning. To access eLearning you must have a UOW user account name and password, and be enrolled in the subject. eLearning is accessed via SOLS (student online services). Log on to SOLS and then click on the eLearning link in the menu column. For information regarding the eLearning spaces please use the following link:

http://uowblogs.com/moodlelab/files/2013/05/Moodle_StudentGuide-1petpo7.pdf

Lecture, Tutorial, Laboratory Times

All timetable information is subject to variation. Check latest timetabling information on the ‘Current Student’ webpage on UOW website or log into SOLS to view your personal timetable prior to attending classes. http://www.uow.edu.au/student/index.html

Timetable information can be accessed from http://www.uow.edu.au/student/timetables/info/index.html

Key University Dates can be accessed from http://www.uow.edu.au/student/dates/index.html

Readings, References and Materials

Textbooks

Nil

Prescribed Readings (includes eReadings)

The following texts are prescribed for this subject, but students are not expected to purchase these. They are available to students through the library on the subjects eLearning site.

Discuss options with your project supervisor.

Materials

Nil
Recommended Readings
Nil

Recent Changes to this Subject
Nil

Laboratory Safety Guidelines
The rules below are general rules that are required in laboratories.
- Before commencing your project you are to ensure that you understand specific procedures for the laboratory in which you work.
- You will need to fill out a risk assessment form before commencing any experiments (confer with your laboratory supervisor).
- Never use any equipment or attempt any experiment without checking the safety implications with your laboratory supervisor or experienced delegated laboratory worker.
- Undergraduate students are not permitted to work after hours unless there is appropriate approval and supervision.

Timetable of Topics / List of Topics Covered
This is a project-based research subject. The student will be required to develop an independent research project in consultation with their academic supervisor. No specific lectures or labs are timetabled.
Section B: Assessment

Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Form of Assessment</th>
<th>Due Date</th>
<th>Return/Feedback Due date</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>Oral Critique</td>
<td>Week 7</td>
<td>Week 9</td>
<td>5%</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Written Critique</td>
<td>Week 7</td>
<td>Week 9</td>
<td>5%</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Seminar</td>
<td>Week 13</td>
<td>Week 13</td>
<td>20%</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Project Report</td>
<td>Week 13</td>
<td>2 weeks later</td>
<td>70%</td>
</tr>
</tbody>
</table>

Assessment 4

<table>
<thead>
<tr>
<th>Total Marks</th>
<th>Return/Feedback Due date</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On date of release of marks</td>
<td>100%</td>
</tr>
</tbody>
</table>

Details of Assessment Tasks

Assessment tasks will be marked using explicit criteria that will be provided to students prior to submission. If you include the criteria below this statement may be removed.

**Assessment 1**
- **Form of Assessment**: Oral Critique
- **Due Date**: Week 7
- **Weighting**: 5%
- **Submission**: N/A – Presentation only required.
- **Type of Collaboration**: Individual Assessment.
- **Length**: Approx. 15 minutes with 5 minutes for questions
- **Details**: Highlight the key strengths and weaknesses of the publication you are critiquing.
- **Style and format**: Presentation
- **Subject Learning Outcomes**: 1, 3-6
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.

**Assessment 2**
- **Form of Assessment**: Written Critique
- **Due Date**: Week 7
- **Weighting**: 5%
- **Submission**: Submit two (2) hardcopies of your assignment to the Subject Coordinator.
- **Type of Collaboration**: Individual Assessment.
- **Length**: Maximum 500 words (~2 typed pages)
- **Details**: Consider the strengths and weaknesses of the publication you are critiquing
- **Style and format**: Report
- **Subject Learning Outcomes**: 1, 3-6
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.

**Assessment 3**
- **Form of Assessment**: Seminar
- **Due Date**: Week 13
- **Weighting**: 20%
- **Submission**: N/A – Presentation only required.
- **Type of Collaboration**: Individual Assessment.
- **Length**: Approx. 15 minutes with 5 minutes for questions
- **Details**: Produce a concise and engaging summary of your project
- **Style and format**: Presentation
- **Subject Learning Outcomes**: 1-6
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.
Assessment 4 | Project Report
Due date | Week 13
Weighting | 70%
Submission | Submit two (2) hardcopies of your assignment to the Subject Coordinator.
Type of Collaboration | Individual Assessment.
Length | Approx. 25 to 30 pages
Details | In consultation with their supervisor students may select either:
  a) Thesis style paper (following the formal guidelines for an Honours thesis). Students should discuss requirements with their supervisor.
  b) Scientific Paper. In this case you should choose a journal appropriate to your project and follow the instructions for authors for that journal. Include a copy of the instructions that you have followed with your report.
Style and format | Report
Subject Learning Outcomes | 1-6
Marking Criteria | The marking criteria will be made available on your eLearning site by week 1 of session.

Minimum Requirements for a Pass in this Subject
To receive a clear pass in this subject a total mark of 50% or more must be achieved. In addition, failure to meet any of the minimum performance requirements is grounds for awarding a Technical Fail (TF) in the subject, even where total marks accumulated are greater than 50%.

The minimum performance requirements for this subject are:
  - pass all assessment tasks

Minimum Student Attendance and Participation
It is expected that students will allocate 16 hours per week to this subject, including any required class attendance, completion of prescribed readings and assessment tasks.

Students must attend non-assessed tutorial classes arranged at regular intervals by the Coordinator. These are critical to successful learning in the course, as they deal with skills essential to marine and other sciences. Topics covered will be developed in line with student needs, and may include scientific writing, data analysis and seminar presentation. There will also be opportunities for students to discuss difficulties they may be having with their research.

Scaling
Scaling will not occur in this subject.

Late Submission
Late submission of an assessment task without an approved extension of the deadline is not acceptable. If you are unable to submit an assessment due to extenuating circumstances (e.g. medical grounds or compassionate grounds), you can make an application of academic consideration. Not all circumstances qualify for academic consideration. For further details about applying for academic consideration visit the Student Central webpage:

Late Submission Penalty
Late submission of an assessment task without an approved extension of the deadline is not acceptable. Marks will be deducted for late submission at the rate of 10% of the total possible marks for that particular assessment task per day. This means that if a piece of work is marked out of 100, then the late penalty will be 10 marks per day (10% of 100 possible marks per day). The formula for calculating the late penalty is the total possible marks x 0.10 x number of days late. For the purposes of this policy a weekend (Saturday and Sunday) will be regarded as two days.

No marks will be awarded for work submitted after the assessment has been returned to the students.
Supplementary Assessments
This subject has been identified as unsuitable for supplementary assessment, and no supplementary assessment will be offered.

System of Referencing Used for Written Work
The Author-Date (Harvard) referencing system should, unless otherwise specified for a particular assessment (check Details of Assessment Tasks), be utilised. A summary of the Harvard system can be accessed on the Library website at: http://public01.library.uow.edu.au/refcite/style-guides/html/

Use of Internet Sources
Students are able to use the Internet to access the most current information on relevant topics and information. Internet sources should only be used after careful critical analysis of the currency of the information, the role and standing of the sponsoring institution, reputation and credentials of the author, the clarity of the information and the extent to which the information can be supported or ratified by other authoritative sources.

Plagiarism
The full policy on Academic Integrity and Plagiarism is found in the Policy Directory on the UOW website.

"The University's Academic Integrity and Plagiarism Policy, Faculty Handbooks and subject guides clearly set out the University’s expectation that students submit only their own original work for assessment and avoid plagiarising the work of others or cheating. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement. Plagiarism can be detected and has led to students being expelled from the University.

The use by students of any website that provides access to essays or other assessment items (sometimes marketed as 'resources'), is extremely unwise. Students who provide an assessment item (or provide access to an assessment item) to others, either directly or indirectly (for example by uploading an assessment item to a website) are considered by the university to be intentionally or recklessly helping other students to cheat. This is considered academic misconduct and students place themselves at risk of being expelled from the University."

Submission of Assessments
Refer to the submission requirements under the details of the individual assessments. Students should ensure that they receive a receipt acknowledging submission. Students will be required to produce this in the event that an assessment task is considered to be lost. Students are also expected to keep a copy of all their submitted assessments in the event that re-submission is required.

Assessment Return
Students will be notified when they can collect or view their marked assessment. In accordance with University Policy marked assessments will usually only be held for 21 days after the declaration of marks for that assessment.
Section C: General Advice

Students should refer to the Faculty of Science, Medicine and Health website for information on policies, learning and support services and other general advice.

University Policies

Students should be familiar with the following University policies:

a. Code of Practice – Teaching and Assessment

b. Code of Practice – Research, where relevant

c. Student Charter

d. Academic Integrity and Plagiarism Policy

e. Student Academic Consideration Policy

f. Course Progress Policy

g. Graduate Qualities Policy

h. Academic Complaints Policy (Coursework and Honours Students)

i. Policy and Guidelines on Non-Discriminatory Language Practice and Presentation

j. Workplace Health and Safety, where relevant

k. Intellectual Property Policy

l. IP Student Assessment of Intellectual Property Policy, where relevant

m. Policy on Ethical Objection by Students to the Use of Animal and Animal Products in Coursework Subjects, where relevant

n. Human Research Ethics Guidelines, where relevant

o. Animal Research Guidelines, where relevant

p. Student Conduct Rules and accompanying Procedures or Research Misconduct Policy for research students
Student Support Services and Facilities
Students can access information on student support services and facilities at the following link. This includes information on “Academic Support”, “Starting at University,” “Help at University” as well as information and support on “Career’s and Jobs”. [http://www.uow.edu.au/student/services/index.html](http://www.uow.edu.au/student/services/index.html)

Student Etiquette

Version Control Table

<table>
<thead>
<tr>
<th>Version Control</th>
<th>Release Date</th>
<th>Author/Reviewer</th>
<th>Approved By</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20151202</td>
<td>A/Prof Andy Davis – Subject Coordinator</td>
<td>Sonia Losinno – ADE Nominee</td>
<td>Final MARE393 Autumn 2016 Subject Outline</td>
</tr>
</tbody>
</table>