Science Medicine and Health

SCIE392: Science Research Internship B

Subject Outline
Autumn, 2016
On-Campus
Wollongong

Subject Information
Credit Points: 8
Pre-requisite(s): 96 credit points, including 24 credit points of 200-level Science, Medicine and Health Schedule subjects or equivalent with a WAM of 70% or better. Admission is by application to the Faculty, subject to approval by the Associate Dean (International) and acceptance by the Head of School and an Academic Supervisor
Co-requisite(s): Nil
Restrictions: Nil
Contact Hours: 130 hours total lab or field work

Subject Contacts
Subject Coordinator/Lecturer
Name: Prof Marc in het Panhuis
Location: Building 231, Room G21
Telephone: 61 2 4221 3155
Email: panhuis@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 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:

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.
- 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.
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Section A: General Information

Subject Learning Outcomes

On completion of this subject, students should be able to:

1. apply relevant laboratory and/or field methods efficiently and accurately in a particular discipline area;
2. work as part of a research team to achieve defined objectives;
3. display and analyse research results appropriately;
4. report results critically;
5. critically assess presentation of methods in research seminar presentations and/or in published work; and
6. understand and apply OH&S principles and risk assessment for research projects.

Subject Description

The subject content is the same as SCIE292 but with an increased workload commensurate with 8 cp. The internship will provide students who have an interest in research with the opportunity to learn how research is done, by allowing them to work alongside practicing researchers. Emphasis will be on learning practical skills in the selected discipline, working as part of a team, achieving research objectives in laboratory or field work, accurately recording methods and results, critically evaluating the research methods of others, and reporting those results in an academic manner.

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.

Key University Dates can be accessed from

Readings, References and Materials

Textbooks
Nil

Prescribed Readings (includes eReadings)

The following readings 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.


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.

List of Topics Covered
As this is a research based subject the list of topics covered will be negotiated between the student and their supervisor.
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 Dates</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>Completion of OH&amp;S Induction</td>
<td>Before starting lab work</td>
<td>TBC</td>
<td>satisfactory/unsatisfactory</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Completion of 130 Hours Lab/Field Work</td>
<td>By end of session</td>
<td>TBC</td>
<td>satisfactory/unsatisfactory</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>End of Project Paper</td>
<td>TBC</td>
<td>TBC</td>
<td>satisfactory/unsatisfactory</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Completed assessment of six research projects</td>
<td>After each presentation</td>
<td>TBC</td>
<td>satisfactory/unsatisfactory</td>
</tr>
</tbody>
</table>

Note: This subject will be assessed as "satisfactory/unsatisfactory", rather than being graded

Details of Assessment Tasks

Assessment tasks will be marked using explicit criteria that will be provided to students prior to submission.

Assessment 1
- Completion of OH&S Induction
- Due date: Before starting lab work
- Weighting: Satisfactory/unsatisfactory
- Submission: Submit a hardcopy to your Supervisor
- Type of Collaboration: Individual Assessment
- Details: A tour of labs followed by a short quiz
- Style and format: In-class test
- Subject Learning Outcomes: 1 and 5
- Marking Criteria: Supervisor assessment

Assessment 2
- Completion of 130 Hours Lab/Field Work
- Due date: By end of session
- Weighting: Satisfactory/unsatisfactory
- Submission: Submit a hardcopy to your Supervisor
- Type of Collaboration: Individual Assessment
- Length: 100 hours
- Details: Laboratory experimentation and data analysis. Students are required to complete the requisite hours of laboratory or field work (130 hours) as recorded in the work book and have this signed off by the direct supervisor. They are also required to attend all three scheduled meetings with the supervisor(s)
- Style and format: Class Participation
- Subject Learning Outcomes: 1-5
- Marking Criteria: Supervisor assessment

Assessment 3
- End of Project Paper
- Due date: Assessment due dates will be negotiated between each student and their research supervisor. Students should have submission dates confirmed by the end of Week 2 of the relevant session.
- Weighting: Satisfactory/unsatisfactory
- Submission: Submit a hardcopy to your Supervisor
<table>
<thead>
<tr>
<th>Type of Collaboration</th>
<th>Individual Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>1,500 words</td>
</tr>
<tr>
<td>Details</td>
<td>Report should include a detailed literature review, details of experiments carried out, results, analysis and discussion. Satisfactorily completing an end-of-project paper critically reflecting on outcomes in relation to research objectives set at the start of the internship, and using newly gained experience to assess the completeness and effectiveness of published</td>
</tr>
<tr>
<td><strong>Style and format</strong></td>
<td>Report</td>
</tr>
<tr>
<td><strong>Subject Learning Outcomes</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Marking Criteria</strong></td>
<td>Supervisor assessment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment 4</th>
<th>Six research projects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Due date</strong></td>
<td>After each presentation. Assessment due dates will be negotiated between each student and their research supervisor. Students should have submission dates confirmed by the end of Week 2 of the relevant session.</td>
</tr>
<tr>
<td><strong>Weighting</strong></td>
<td>Satisfactory/unsatisfactory</td>
</tr>
<tr>
<td><strong>Submission</strong></td>
<td>Submit a hardcopy to your Supervisor</td>
</tr>
<tr>
<td><strong>Type of Collaboration</strong></td>
<td>Individual Assessment</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>To be negotiated between the student and their research supervisor</td>
</tr>
<tr>
<td><strong>Details</strong></td>
<td>Relevant technical seminars should be attended during the session. A short summary of the presentation in the form of a scientific abstract which assesses details of results and methods components of six research projects (research seminars, posters, or published papers)</td>
</tr>
<tr>
<td><strong>Style and format</strong></td>
<td>Essay</td>
</tr>
<tr>
<td><strong>Subject Learning Outcomes</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Marking Criteria</strong></td>
<td>Supervisor assessment</td>
</tr>
</tbody>
</table>

**Minimum Requirements for a Pass in this Subject**
To receive a clear pass in this subject students must gain a Satisfactory grade in every assessment task.

**Minimum Student Attendance and Participation**
Students are not required to attend set classes. It is the responsibility of the student to coordinate appropriate meetings with their project supervisor. Student participation in the OH&S induction, completion of 100 hours of lab/field work and attendance at meetings stipulated by the supervisor are compulsory and students must attend at least 100% of classes and/or meetings. Absences will require the submission of an application for Academic Consideration via SOLS and the presentation of suitable documentation, for example a Medical Certificate, to Student Central as soon as practical. For further details about applying for academic consideration visit the Student Central webpage: [http://www.uow.edu.au/student/central/academicconsideration/index.html](http://www.uow.edu.au/student/central/academicconsideration/index.html)

**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: [http://www.uow.edu.au/student/central/academicconsideration/index.html](http://www.uow.edu.au/student/central/academicconsideration/index.html)
Supplementary Assessments
Supplementary assessment may be offered to students whose performance in this subject is close to that required to pass the subject, and are otherwise identified as meritting an offer of a supplementary assessment. The precise form of supplementary assessment will be determined at the time the offer of a supplementary assessment is made.

Students can log on to SOLS and click on the link titled “Supplementary Assessment” to view any applicable offers or use the following link: http://www.uow.edu.au/student/exams/suppassess/index.html

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. Code of Practice – Student Professional Experience, where relevant

e. Academic Integrity and Plagiarism Policy

f. Student Academic Consideration Policy

g. Course Progress Policy

h. Graduate Qualities Policy

i. Academic Complaints Policy (Coursework and Honours Students)

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

k. Workplace Health and Safety, where relevant

l. Intellectual Property Policy

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

n. Human Research Ethics Guidelines, where relevant

o. 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]
Student Etiquette
Guidelines on the use of email to contact teaching staff, mobile phone use in class and information on the university guide to eLearning ‘Netiquette’ can be found at http://www.uow.edu.au/student/elearning/netiquette/index.html

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>20151211</td>
<td>Mrs Lea Trivellion-Rowles International Administrator</td>
<td>Mrs Sonia Losinno ADE Nominee</td>
<td>Final SCIE392 Autumn 2016 Subject outline</td>
</tr>
</tbody>
</table>