School of Biological Sciences

BIOL103: Molecules, Cells and Organisms

Subject Outline
Spring 2014
On-Campus
Wollongong

Subject Information
Credit Points: 6
Pre-requisite(s): Nil
Co-requisite(s): Nil
Restrictions: Nil
Contact Hours: 2hrs Lectures, 3hrs Practical

Subject Contacts
Subject Coordinator/Lecturer

<table>
<thead>
<tr>
<th>Name:</th>
<th>Dr Tracey Kuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Building 41, Room 177</td>
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<tr>
<td>Telephone:</td>
<td>61 2 4221 4916</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:tracey_kuit@uow.edu.au">tracey_kuit@uow.edu.au</a></td>
</tr>
<tr>
<td>Consultation mode and times:</td>
<td>Email for appointment</td>
</tr>
</tbody>
</table>

Lecturer

<table>
<thead>
<tr>
<th>Name:</th>
<th>Dr Lezanne Ooi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Building 32, Room 231</td>
</tr>
<tr>
<td>Telephone:</td>
<td>61 2 4221 5865</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:lezanne_ooi@uow.edu.au">lezanne_ooi@uow.edu.au</a></td>
</tr>
<tr>
<td>Consultation mode and times:</td>
<td>Email for appointment</td>
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</tbody>
</table>

Lecturer

<table>
<thead>
<tr>
<th>Name:</th>
<th>Professor Mark Wilson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Building 32, Room 304</td>
</tr>
<tr>
<td>Telephone:</td>
<td>61 2 4221 4534</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:mark_wilson@uow.edu.au">mark_wilson@uow.edu.au</a></td>
</tr>
<tr>
<td>Consultation mode and times:</td>
<td>Email for appointment</td>
</tr>
</tbody>
</table>

You will also be assigned a demonstrator for practicals. This person is available to assist you during practicals but not normally outside of class times. If you have queries about material in the lecture course contact the lecturer responsible. General queries concerning the practicals or the course should be addressed to the subject coordinator. Consultation with lecturers can be arranged by appointment via email.

Student Support and Advice
For general enquiries please contact SMAH Central:
Location: 41.152
Telephone: 61 2 4221 3492
Email: smah-students@uow.edu.au
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Section A: General Information

Subject Learning Outcomes

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

| a) | Describe the characteristics of the most important classes of biological molecules and the major features of the structure and function of cells and sub-cellular organelles; |
| b) | Understand the cell cycle, the molecular basis of inheritance and the flow of genetic information from genes to proteins; |
| c) | Describe organisms fundamental to the study of microbiology; |
| d) | Understand how the immune system recognises and responds to immunogenic antigens; |
| e) | Work effectively in groups; |
| f) | Analyse results and present data clearly and concisely; |
| g) | Research and present relevant scientific advancements in various formats (for example posters, seminars). |

Subject Description

This subject covers topics including:

- Cell structure and function,
- Classes of biological molecules,
- Cell division,
- Introductory biochemistry, genetics and microbiology,
- Physiology of the immune system.

Graduate Qualities

The University of Wollongong has developed five graduate qualities (http://www.uow.edu.au/student/qualities/index.html), which it considers express valuable qualities that are essential for UOW graduates in gaining employment and making an important contribution to society and their chosen field. Student development of the following graduate qualities will be enhanced by their participation in this subject:

1. **Informed**: Have a sound knowledge of an area of study or profession and understand its current issues, locally and internationally. Know how to apply this knowledge. Understand how an area of study has developed and how it relates to other areas.
2. **Independent learners**: Engage with new ideas and ways of thinking and critically analyse issues. Seek to extend knowledge through ongoing research, enquiry and reflection. Find and evaluate information, using a variety of sources and technologies. Acknowledge the work and ideas of others.
3. **Problem solvers**: Take on challenges and opportunities. Apply creative, logical and critical thinking skills to respond effectively. Make and implement decisions. Be flexible, thorough, innovative and aim for high standards.
4. **Effective communicators**: Articulate ideas and convey them effectively using a range of media. Work collaboratively and engage with people in different settings. Recognise how culture can shape communication.
5. **Responsible**: Understand how decisions can affect others and make ethically informed choices. Appreciate and respect diversity. Act with integrity as part of local, national, global and professional communities.

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 the latest information on the university web timetable via the Timetable link under Study Resources on the Current Students webpage or log into SOLS to view your personal timetable prior to attending classes.

Lecture: Start in week 1
Practical: Start in week 2. Enrolment is completed online through SOLS
Tutorial: Week 12 only. Enrolment is automatic and based on practical class allocation.

Readings, References and Materials

Textbooks:
The following text(s) will need to be purchased by students enrolled in this class.


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.

Nil

Materials:
You should bring the following to each practical class:

- Practical manual and workbook (purchased from Uni shop).
- Calculator.
- Ruler, pen etc.
- Laboratory coat (essential in this subject).

For dry practicals, also bring your text book.

Recommended Readings:
The following references complement the prescribed readings and textbooks:


Recommended readings are not intended as an exhaustive list, students should use the Library catalogue and databases to locate additional resources. There are other general biology texts as well as specialist books and review journals covering various areas of biology (i.e. genetics, biochemistry, botany and zoology). General scientific articles covering many areas in modern biology can be found in journals such as Scientific American and New Scientist as well as more specific articles in the weekly scientific journals Nature and Science.

Recent Changes to this Subject
Nil

Ethical Objection to the Use of Animal and Animal Products
In order to achieve specific learning objectives, the use of animals, animal tissues, and or animal-derived products (such as sera) is inherent and unavoidable. Students with conscientious objections to this use should not enrol in this subject.

Students who intend to avoid a particular learning activity on the basis of conscientious objection should notify the subject coordinator in writing as soon as possible and not later than the end of Week 1 of the session. Students who do not participate in a particular learning activity are required to complete an alternative exercise (a CD-ROM is available) or attend the practical and “observe”. The material involved is examinable and the prac must be written up and completed in your workbook. For further information, refer to http://www.uow.edu.au/about/policy/UOW058708.html

Laboratory Safety Guidelines
1. At various stages in the course, you may work with micro-organisms, and various reagents which are corrosive, acutely toxic, cumulative poisons, or inflammable and potentially explosive. As a general practice, therefore, you should neither eat nor smoke in a laboratory; both are forbidden in our class laboratories.

2. A laboratory coat is for your protection and must be worn in the laboratory at all times.

3. Without adequate footwear there is a constant danger of feet being cut by glass or injured by corrosive substances such as concentrated acids or alkalis. You should therefore ensure that your feet are covered. Under no circumstances will thongs, sandals or bare feet be permitted.

4. Note the position of the safety shower in the laboratory. If you get a large amount of corrosive substance on your skin or clothing, use the shower quickly and copiously. Burns should be treated by immediately dousing the burnt skin with liberal amounts of cold water.

5. Spilt acids, alkalis and organic solvents damage benches and floor and are a hazard for other people in the laboratory. If you spill any, immediately seek the help of a demonstrator or member of the technical staff to clean it up in the appropriate manner.

6. However clean a bench might be, always assume that is too dirty for a pipette or spatula. Rest pipettes, which are in intermittent use, in racks. When you have finished with them, discard them into the container provided.

7. Attend practical class on time in order to receive important pre-practical instructions.

8. Use of personal items such as MP3 players or other musical devices is prohibited whilst in all areas of the laboratory.

9. Common sense is expected at all times. There should be no horseplay or practical jokes in the laboratory.

10. Information about risks associated with each practical will be available in the laboratory. Material Safety Data Sheets (MSDS) detailing the hazards and safety procedures associated with any hazardous substances will also be provided. You MUST read this before each practical.
11. In the laboratory, keep your workspace as tidy as possible throughout the practical and completely clean at the completion of the practical. Follow instructions in the laboratory for disposal of all waste, including contaminated waste and broken glass.

12. All instructions for the handling of organisms and equipment must be carefully adhered to. It is YOUR responsibility to follow these instructions carefully.

13. Familiarise yourself with the evacuation procedure in case of evacuation.

14. If an accident occurs, alert your demonstrator and/or the practical supervisor. An accident/injury/incident form must be completed as soon as possible after the incident. These are available from the laboratory technician.

15. Treat instruments with care and keep them clean.

16. Wash your hands, immediately and thoroughly if they are contaminated with microorganisms, radioactive materials or any chemical reagents. Always wash them, in any case, at the end of the class.

**Timetable of Topics***

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Commencing</th>
<th>Lecture</th>
<th>Text</th>
<th>Practical and Quizzes</th>
</tr>
</thead>
</table>
| 1    | 28/07/2014      | 1. Introduction/Chemistry of Life  
                      2. Cell structure | 2,3 6 | |
| 2    | 04/08/2014      | 3. Cell structure  
                      4. Proteins | 5 6 5 | 1. Cell function  
                      eLearning Quiz 1 – Microscopy & cells |
| 3    | 11/08/2014      | 5. Carbohydrates  
                      6. Lipids and membranes | 7,5 | 2. Biochemistry I |
| 4    | 18/08/2014      | 7. Cell-cell interactions  
| 5    | 25/08/2014      | 9. Metabolism  
                      10. Cellular respiration | 8 9 | 4. Dry practical I |
| 6    | 01/09/2014      | 11. Cell division  
                      12. Cell cycle control & Cancer | 12 12 | Mid-Session Quiz  
                      (no Prac) |
| 7    | 08/09/2014      | 13. Meiosis  
                      Prac Quiz 1 |
| 8    | 15/09/2014      | 15. Genes  
                      16. DNA synthesis | 16 16 | 6. Molecular biology |
| 9    | 22/09/2014      | 17. DNA to protein  
                      18. Genetic engineering | 17 20 | 7. Dry practical II  
                      Assessment 1 |

**Mid-Session Recess**

| 10   | 06/10/2014      | 19. Viruses  
| 11   | 13/10/2014      | 21. Protozoans  
                      22. Fungi | 28 31 | 9. Microbiology II  
                      Prac Quiz 2 |
| 12   | 20/10/2014      | 23. Innate immunity  
                      Assessment 2 |
| 13   | 27/10/2014      | 25. Biotechnology  
                      26. Summary | 20 | eLearning Quiz 2 - Immunology |

**Study Recess**

*The above timetable should be used as a guide only, as it is subject to change. Students will be advised of any changes as they become known.*
Note: Peer Assisted Study Sessions
Whether you are a top performer or could use some improvement, you will benefit from the skills and understanding gained from attending PASS. Think “Super Group” learning! PASS sessions are facilitated by senior students who have excelled in this subject. Many students each year find this subject challenging, and PASS has a strong record of helping students to succeed. In 2013, students who attended PASS for BIOL103 on a weekly basis scored 15 marks better on average than non-attending students. None of the students that attended weekly failed. To find out more about the multi award winning PASS Program, or to see the PASS timetable, go to:
http://www.uow.edu.au/student/services/pass
Section B: Assessment

Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Form of Assessment</th>
<th>Due Date</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>eLearning Quizzes (2)</td>
<td>10 pm Monday Week 2 &amp; 13</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Mid-Session Theory</td>
<td>Week 6 Practical Class</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Practical Quizzes (2)</td>
<td>Week 7 Practical Class</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Dry Practical Assessment (2)</td>
<td>Week 9 Practical Class</td>
<td>15%</td>
</tr>
<tr>
<td>Assessment 5</td>
<td>Final Practical Examination</td>
<td>UOW Exam Period</td>
<td>20%</td>
</tr>
<tr>
<td>Assessment 6</td>
<td>Final Theory Examination</td>
<td>UOW Exam Period</td>
<td>35%</td>
</tr>
<tr>
<td><strong>Total Marks</strong></td>
<td></td>
<td></td>
<td><strong>100%</strong></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.

**Assessment 1**
- **eLearning Quizzes (2)**
- **Due date**: 10 pm Monday Week 2 & 13 (online)
- **Weighting**: 10%
- **Submission**: Assessments should be submitted online via eLearning
- **Type of Collaboration**: Individual Assessment
- **Length**: 10-15 Questions
- **Details**: There are two web tutorials, with information and quizzes, which are to be submitted through the eLearning site. You enter the “eLearning tutorials and quizzes” folder, from there you first complete the tutorial, print the quiz, work on it offline and then re-enter the assignment page to submit your answers. Please follow all instructions very carefully when submitting your final answers.
- **Style and format**: Online quizzes
- **Marking Criteria**: Marked from a computer database of answers

**Assessment 2**
- **Mid-Session Theory**
- **Due date**: Week 6 Practical Class
- **Weighting**: 10%
- **Submission**: Exam papers and answers must be submitted at the conclusion of the exam.
- **Type of Collaboration**: Individual Assessment
- **Length**: 35 questions in 35 minutes
- **Details**: The material covered in lectures weeks 1-5 will be examined by a mid-session quiz in the format of multiple choice questions. Students arriving late will not be able to sit for the quiz and will receive zero for this assessment. The mid-session theory is designed to provide you with:
  - a) Theoretical questions to develop your abilities at processing, and interpreting data.
  - b) Relevant examples of the type of questions included in the final exam in this subject. These will allow you to become familiar with the level of knowledge expected of you in the final exam.
- **Style and format**: Multiple Choice Questions
- **Marking Criteria**: Marked against a standardised answer sheet
<table>
<thead>
<tr>
<th>Assessment 3</th>
<th>Practical Quizzes (2)</th>
</tr>
</thead>
</table>
| **Due date** | Week 7 Practical Class  
Week 11 Practical Class |
| **Weighting** | 10% |
| **Submission** | Exam papers and answers must be submitted at the conclusion of the quiz. |
| **Type of Collaboration** | Individual Assessment |
| **Length** | 15 minutes |
| **Details** | Material covered in practicals will be covered in the practical quizzes. These quizzes will be held in practical classes. Students arriving late will not be able to sit for the quiz and will receive zero for this assessment. Typically, you are provided with some experimental data or images analogous to that collected during one of the practical classes, and asked to draw/identify and or make calculations and conclusions from that data. |
| **Style and format** | Short answer questions |
| **Marking Criteria** | Marked against a standardised answer sheet |

<table>
<thead>
<tr>
<th>Assessment 4</th>
<th>Dry Practical Assessment (2)</th>
</tr>
</thead>
</table>
| **Due date** | Week 9 Practical Class  
Week 12 Tutorial Class |
| **Weighting** | 15% |
| **Submission** | Submit a hardcopy of your poster and a soft copy of your presentation to your tutor, lecturer or demonstrator during the required class. Submit peer assessment sheets during the required classes. |
| **Type of Collaboration** | Group Research Project |
| **Length** | Poster: A2 size paper  
Seminar: 10 minutes |
| **Details** | In this assessment, you are asked to research a particular lecture topic covered in Biol103. Through your research you are to collect examples of where this knowledge is being used in a practical or ‘real world’ setting and as a group, share this knowledge with the other students in your practical class in the form of a poster (week 9) and a group seminar presentation (week 12). This assignment is designed for group work and as such ALL members of the group are expected to contribute to all aspects of this assignment. All group members will be asked to assess their own and all other group members’ contributions to each assessment. |
| **Style and format** | Poster & Presentation |
| **Marking Criteria** | Marking criteria is provided in the subject practical manual. |

<table>
<thead>
<tr>
<th>Assessment 5</th>
<th>Final Practical Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Due date</strong></td>
<td>During UOW Exam Period</td>
</tr>
<tr>
<td><strong>Weighting</strong></td>
<td>20%</td>
</tr>
<tr>
<td><strong>Submission</strong></td>
<td>Exam papers and answers must be submitted at the conclusion of the exam.</td>
</tr>
<tr>
<td><strong>Type of Collaboration</strong></td>
<td>Individual Assessment</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>4 stations with questions to complete in 1 h 25 min.</td>
</tr>
<tr>
<td><strong>Details</strong></td>
<td>The final practical examination will cover practical material. The exam format will be similar to the prac quizzes. Typically, you are provided with some experimental data or images analogous to that collected during one of the practical classes, and asked to draw/identify and or make calculations and conclusions from that data.</td>
</tr>
<tr>
<td><strong>Style and format</strong></td>
<td>Short answer questions</td>
</tr>
<tr>
<td><strong>Marking Criteria</strong></td>
<td>Marked against a standardised answer sheet</td>
</tr>
<tr>
<td>Assessment 6</td>
<td>Final Theory Examination</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Due date</td>
<td>During UOW Exam Period</td>
</tr>
<tr>
<td>Weighting</td>
<td>35%</td>
</tr>
<tr>
<td>Submission</td>
<td>Exam papers and answers must be submitted at the conclusion of the exam.</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>100 Questions in 120 minutes</td>
</tr>
<tr>
<td>Details</td>
<td>The final examination will cover lecture material. Some example questions will be given during lectures.</td>
</tr>
<tr>
<td>Style and format</td>
<td>Multiple Choice Exam</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>Marked against a standardised answer sheet</td>
</tr>
</tbody>
</table>

**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:
- Achieve a minimum of 40% in the Final Theory and Practical Examination (combined)

**Minimum Student Attendance and Participation:**
It is expected that students will allocate 12 hours per week to this subject, including any required class attendance, completion of prescribed readings and assessment tasks.

Student attendance at tutorials and practicals is compulsory and students must attend at least 80% of classes. 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 may occur in this subject at the end of session by the Unit Assessment Committee and/or Faculty Assessment Committee (FAC). Marks will only be scaled to ensure fairness/parity of marking across groups of students. Scaling will not affect any individual student’s rank order within their cohort. For more information refer to Assessment Guidelines – Scaling: [http://www.uow.edu.au/about/policy/UOW058609.html](http://www.uow.edu.au/about/policy/UOW058609.html)

**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)

**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

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 meriting 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; 

System of Referencing Used for Written Work

The Author-Date (Harvard) referencing system should, unless otherwise specified for a particular assignment (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 Assignments

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 assignments in the event that re-submission is required.

Assessment Return

Students will be notified when they can collect their assignment or view their marked assessment. In accordance with University Policy marked assignments will usually only be held for 21 days after the declaration of marks for that assignment.
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. Student Charter

c. Academic Integrity and Plagiarism Policy

d. Student Academic Consideration Policy

e. Course Progress Policy

f. Graduate Qualities Policy

g. Academic Grievance Policy (Coursework and Honours Students)

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

i. Workplace Health and Safety, where relevant

j. Intellectual Property Policy

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

l. 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
## 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>20140610</td>
<td>Dr Tracey Kuit</td>
<td>Miss Emma Purdy</td>
<td>Final BIOL103 Spring 2014 Outline</td>
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