FPBI001
Biology 1
IBT1 2015
Macquarie City Campus

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Disclaimer
Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.
General Information

Unit convenor and teaching staff
Lecturer in Charge and Tutor
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Contact via trevor.corkin@mqc.edu.au
City Campus / St Andrew's Cathedral School
Contact lecturer

Echo Oh
echo.oh@mqc.edu.au

Credit points
3

Prerequisites

Corequisites

Co-badged status

Unit description
Living organisms require a specific range of chemical and physical factors to maintain their optimum metabolic function. This unit looks at the range of factors; how they affect cellular functions and the way in which multi-cellular organisms monitor and maintain the ideal balance. The chemical, physical, physiological and behavioural aspects of homeostasis are investigated. The second part of this course looks at how organisms change over time. The historical development of theories of evolution and the mechanisms of change are investigated. Natural selection, sexual reproduction, chromosome mutation as well as Mendel’s experiments are studied. The nature of DNA, genes and chromosomes are vital to our understanding of this change. The biological and ethical aspects of cloning, genetic engineering and stem cell research are covered.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes
On successful completion of this unit, you will be able to:

Follow given method to carry out an experiment and write a Scientific Report
Explain the nature of Homeostasis in mammals and the role of enzymes.
Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
Explain the regulation of salt and water in mammals.
Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
Outline the structure of chromosomes and their role in inheritance.

General Assessment Information

Missed Assessments
The only exception to not sitting an in-class test or examination at the designated time or handing in an assessment on the due date is because of a serious or unavoidable disruption.

Students who miss a formal assessment held in class or a final examination due to a serious and unavoidable disruption which commenced after the start of the study period must lodge a Disruption to Studies Notification via ask.mq.edu.au within five (5) working days of the commencement of the disruption in order to apply for Special Consideration. The notification must be supported by appropriate evidence.

In submitting a Disruption to Studies Notification, a student is acknowledging that they may be required to undertake additional work. The time and date, deadline or format of any required extra assessable work as a result of a Disruption to Studies Notification is not negotiable. Further, in submitting a Disruption to Studies Notification, a student is agreeing to make themselves available so that they can complete any extra work as required.

Students will be advised of the outcome of their Disruption to Studies Application via ask.mq.edu.au.

Please refer to the Disruption to Studies Policy for further details.

Extensions & Late Submissions
To apply for an extension of time for submission of an assessment item, students must submit a notification of Disruptions to Studies via ask.mq.edu.au.

Grounds for extensions are usually serious illness, accident, disability, bereavement or other compassionate circumstances and must be substantiated with relevant evidence (e.g. professional authority form).

Late submissions without an approved extension will be penalised at a rate of 10% per day (weekend inclusive). This applies to assessments completed outside of class such as essays and assignments.
Final Examinations and Final Assessment Tasks

Final exams and final assessments typically take place in Week 13 and the first 3 days of week 14. Please note that you must pass the final exam or final assessment task in order to pass this unit. You are expected to present yourself for examination at the time and place designated in the Final Examination Timetable. Please note that no special consideration will be given to students who have booked flights out of the country prior to the conclusion of the examination period.

The Final Examination Timetable will be available in provisional form on the MQC Student Portal Noticeboard at [https://student.mqc.edu.au/NoticeBoard.htm](https://student.mqc.edu.au/NoticeBoard.htm) in approximately week 10 of this Session. You will have 1 week to give feedback to the Student Administration Manager should you have concerns or note any clashes in your final exam timetable. From week 12, you will also be able to view your personal final exam timetable via the MQC Student Portal.

The examination timetable is produced to provide the maximum number of students with the least number of consecutive examinations. It is not uncommon for students of Macquarie University at both the City and North Ryde Campuses to be required to sit two consecutive examinations. A maximum of three consecutive exams is also permitted (for example, two on one day, and one the following morning). However, no student is required to sit four consecutive exams and if any student discovers their examination timetable contains four consecutive exams, they should immediately contact the Student Administration Manager to have an exam rescheduled.

Prior to the examination period, you should ensure that you are familiar with the Examination Rules. You can find these under Exam Information on the MQC Student Portal Noticeboard. A breach in any of these rules will lead to disciplinary action being undertaken.

Students who miss a final exam or final assessment will be awarded a mark of 0 for the task and cannot pass the unit, except for cases where a Disruption to Studies Notification is lodged and a Special Consideration is awarded. Please note that in submitting a Disruption to Studies Notification, a student is acknowledging that they may be required to undertake additional work. The time and date, deadline or format of any required extra assessable work as a result of a Disruption to Studies Notification is not negotiable.

Supplementary Examinations

Supplementary final examinations are held during the scheduled Supplementary Final exam Period in the lead up to the subsequent teaching period.

Please note that results for supplementary exams may not be available until the conclusion of Week 2 of the subsequent teaching session and until supplementary results are released, continuing students may be prevented from enrolling in certain units in the subsequent teaching session.

Students in their final semester of study who undertake supplementary final exams should note that Formal Completion of the Foundation Program will not be possible until supplementary results are released and this may impact on their ability to enrol subsequent programs of study.
on time.

**Retention of Originals**

It is the responsibility of the student to retain a copy of any work submitted and produce another copy of all work submitted if requested. Copies should be retained until after the release of final results each Session.

In the event that a student is asked to produce another copy of work submitted and is unable to do so, they may be awarded zero (0) for that particular assessment task.

The University also reserves the right to request and retain the originals of any documentation/evidence submitted to support notifications of disruptions to studies. Requests for original documentation will be sent to the applicant’s University email address within six (6) months of notification by the student. Students must retain all original documentation for the duration of this six (6) month period and must supply original documents to the University within ten (10) working days of such a request being made.

**Turnitin**

Students may be requested to submit assessments via Turnitin and in such instances any hard copies submitted without a Turnitin Report will not be marked.

Step by step guidance for Turnitin submissions can be found [here](#). Should you experience any difficulties with Turnitin submission, please see a Lab Demonstrator in Lab 311 at MQC.

If you experience difficulties submitting through Turnitin on the due date, you must email your work in electronic format to your lecturer using the email address provided in the unit guide. Late submissions will be penalised at 10% per day.

**Grading & Requirements to pass**

This unit will use the following grading system:

- S – Satisfactory (50-100)
- F – Fail (0-49)

Grade descriptors and other information concerning grading are contained in the Macquarie University Grading Policy which is available at: [http://www.mq.edu.au/policy/docs/grading/policy.html](http://www.mq.edu.au/policy/docs/grading/policy.html)

To pass this unit, you must attempt all assessable components of the unit, pass the final exam and attain an overall mark of at least 50%. Failure to do so will result in an F (fail) grade being recorded.

**Provision of Feedback**

Marks awarded for assessment items will generally be available within fourteen (14) days of the due date.

If you wish to receive further feedback from your instructor, you should contact them directly using the contact details provided in this guide.
Students may seek general feedback about their performance in a unit up to 6 months following results release.

**Contacting Staff and Getting Help**

Foundation students may approach teaching staff for one-on-one help in one of three ways:

- During Consultation sessions. For details about consultation sessions and Consultation times, please refer to timetabled provided on the Macquarie City Campus Portal Noticeboard.
- Using the "Questions for your instructor" dialogue provided in Week 0 of the respective unit in iLearn.
- Using the instructor’s email address provided in the Unit Guide of the respective unit.

For all university related correspondence, students are required to use their official MQ student email account which may be accessed via the Macquarie University Student Portal. Enquiries from personal email accounts will not be replied to.

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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</thead>
<tbody>
<tr>
<td>Class quizzes</td>
<td>20%</td>
<td>Weeks 3-11</td>
</tr>
<tr>
<td>Practical Test</td>
<td>20%</td>
<td>Week 5</td>
</tr>
<tr>
<td>Oral Presentation &amp; Report</td>
<td>20%</td>
<td>Week 10</td>
</tr>
<tr>
<td>Final Examination</td>
<td>40%</td>
<td>Examination Period</td>
</tr>
</tbody>
</table>

**Class quizzes**

Due: **Weeks 3-11**  
Weighting: **20%**

Five quizzes will be conducted at the beginning of notified lessons, starting week 3. Quizzes will review information covered in the previous classes. Quizzes will be marked and feedback provided in the following week. All 5 quiz marks will count towards the final mark.

On successful completion you will be able to:

- Follow given method to carry out an experiment and write a Scientific Report
- Explain the nature of Homeostasis in mammals and the role of enzymes.
- Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
- Explain the regulation of salt and water in mammals.
• Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
• Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
• Outline the structure of chromosomes and their role in inheritance.

Practical Test
Due: **Week 5**
Weighting: **20%**

Students will be required to design and conduct an experiment to find the effect of a given factor upon the rate of enzyme activity. Submission will be in the form of a written practical report.

On successful completion you will be able to:
• Follow given method to carry out an experiment and write a Scientific Report
• Explain the nature of Homeostasis in mammals and the role of enzymes.

Oral Presentation & Report
Due: **Week 10**
Weighting: **20%**

Students will select a topic in consultation with the lecturer and write a research report. The findings will be presented to the class in the form of a presentation, accompanied by visual aids (for example PowerPoint). The report must be submitted through Turnitin and a copy of research materials is to be submitted to the lecturer as this will contribute towards the final mark.

On successful completion you will be able to:
• Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.

Final Examination
Due: **Examination Period**
Weighting: **40%**

The final examination paper will be two hours, and will consist of a multiple choice section and a number of extended answer questions. The final exam will be held during the final examination period in either Week 13 or 14. **Please note that you must pass the final exam in order to pass this unit.**

On successful completion you will be able to:
• Follow given method to carry out an experiment and write a Scientific Report
• Explain the nature of Homeostasis in mammals and the role of enzymes.
• Demonstrate an understanding of the transport systems in plants and mammals;
specifically the role of blood.

- Explain the regulation of salt and water in mammals.
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
- Outline the structure of chromosomes and their role in inheritance.

**Delivery and Resources**

**Classes**

Weekly contact will be 5 hours consisting of a 2.5 hour lecture, and a 2.5 hour lab / tutorial.

Classes will take place at St Andrew’s Cathedral School, which is located near Town Hall station (483 George St, Sydney NSW 2000).

The lecturer will meet students at MQC in Week 1 (in the room indicated on the students' timetable) and take them down to St Andrew’s. Students will be expected to make their way to St Andrew’s from thereon. Please make sure you allow sufficient time to make your way to the School. If you have a class immediately prior to your Science lesson at St Andrew’s, you are permitted to leave that class 15 minutes early in order to arrive at St Andrew’s on time.

While at St Andrew’s, students will be expected to comply with the school’s rules and procedures.

During Lectures, new content will typically be presented and explained by the lecturer. During laboratory work and tutorials participants will have more opportunities to engage in discussion and activities. (This unit will not comprise any consultation sessions.) Attendance of both sessions (lectures & tutorials) is compulsory.

Timetables for lectures and tutorials as well as consultation sessions can be found on the Noticeboard on the [City Campus Student Portal](https://unitguides.mq.edu.au/unit_offerings/51309/unit_guide/print).

If any scheduled class falls on a public holiday a make-up lesson may be scheduled, usually on a Saturday. Scheduled make-up days are noted in the Teaching Schedule of the Unit Guide and attendance is compulsory. Where appropriate the instructor may require students to complete alternative activities on-line rather than attending a make-up lesson.

**Learning and Teaching Activities**

Classes will consist of a mixture of theory and practical activities and will involve the use of chemicals and other laboratory equipment. For this reason, students are required to wear closed shoes for their lessons in the Laboratory.

It is expected that all students purchase the prescribed text and read in advance to ensure that they are well prepared for the content covered in each lecture.

iLearn will also be used to post lecture and tutorial materials and also communicate with students so it is expected that students will check this resource on a regular basis.
iLearn

iLearn is Macquarie’s online learning management systems. The following unit specific information will be available on the website:

- Announcements
- Staff contact details
- Lecture notes and recordings
- Learning and teaching activities and resources
- Assessment information
- Tutorial questions and solutions
- Assessment submission tools such as Turnitin
- Other relevant material

Please note that you must enrol in a unit via eStudent in gain access to the unit in iLearn.

You are required to regularly check the website and use it as an information and resource centre to assist with your learning.

Ensure that when you have finished using the website, you log out. Failure to do so could allow unauthorised access to your account.

Please contact the IT helpdesk (Ph. 02 9850 4357) or lodge a ticket using OneHelp if you need assistance accessing iLearn.

Required and Recommended Texts and Materials

Prescribed textbook


All prescribed textbooks will be made available to students to purchase at the Phillip Street Coop Bookshop.

Students can view a full list of textbooks for all units on the Macquarie City Campus Student Portal Noticeboard.

Technology Used and Required

In the classroom students will be required to develop skills and safe practices in a variety of areas. Included are microscope work, biological materials and chemical testing. This equipment will be provided in the laboratory.

Students will be required develop expertise in research and presentation technologies. This will include the use of MS PowerPoint and possibly Microsoft Excel.

iLearn will be utilised to put up lecture slides and additional resources, so students should login to the system on a regular basis.
## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning:</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Week 1</strong></td>
<td>Experimental reports and Microscopy</td>
<td>Teacher’ notes</td>
</tr>
<tr>
<td>Mon 23</td>
<td></td>
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<tr>
<td>February</td>
<td></td>
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<tr>
<td><strong>Week 2</strong></td>
<td>Homeostasis.</td>
<td>Pages 13-14</td>
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<tr>
<td>Mon 2</td>
<td></td>
<td>Page 11-12</td>
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<tr>
<td>March</td>
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<tr>
<td></td>
<td>The role of the nervous system in detecting and responding to change</td>
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<tr>
<td></td>
<td>The role of an enzyme and the factors affecting its efficiency</td>
<td>Pages 4-9</td>
</tr>
<tr>
<td></td>
<td>Enzyme activity practical work - Temperature</td>
<td></td>
</tr>
<tr>
<td><strong>Week 3</strong></td>
<td>Adaptations by plants to temperature extremes</td>
<td>Page 21</td>
</tr>
<tr>
<td>Mon 9</td>
<td>Enzyme activity practical work – Surface area</td>
<td></td>
</tr>
<tr>
<td>March</td>
<td>Quizzes begin</td>
<td></td>
</tr>
<tr>
<td><strong>Week 4</strong></td>
<td>Australian examples to demonstrate an understanding of responses to variable environmental temperatures</td>
<td>Pages 15-20, Pages 22-27</td>
</tr>
<tr>
<td>Mon 16</td>
<td>The transport role of blood in mammals</td>
<td>Pages 28-31</td>
</tr>
<tr>
<td>March</td>
<td></td>
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<tr>
<td><strong>Week 5</strong></td>
<td>The physical structures involved in the transport of blood</td>
<td>Pages 39-42</td>
</tr>
<tr>
<td>Mon 23</td>
<td>The transport processes in plants</td>
<td>Pages 46-53</td>
</tr>
<tr>
<td>March</td>
<td>Practical Task</td>
<td></td>
</tr>
<tr>
<td><strong>Week 6</strong></td>
<td>The changes in the chemical composition of blood as it moves through the body</td>
<td>Pages 32-38</td>
</tr>
<tr>
<td>Mon 30</td>
<td>Transport of chemicals through the body</td>
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<tr>
<td>March</td>
<td></td>
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<tr>
<td><strong>Week 7</strong></td>
<td>Regulation of water</td>
<td>Pages 55-66</td>
</tr>
<tr>
<td>Tue 7 April</td>
<td>Kidney structure and function</td>
<td></td>
</tr>
<tr>
<td><strong>Week 8</strong></td>
<td>Outline the Darwin/Wallace Theory of Evolution</td>
<td>Pages 86-95</td>
</tr>
<tr>
<td>Mon 13</td>
<td></td>
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<tr>
<td>April</td>
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</table>
## Week 9
**Mon 20 April**
Examine the evidence to support the Theory of Evolution
The formation and dating of fossils

<table>
<thead>
<tr>
<th>Pages</th>
<th>Teacher’s notes</th>
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<tbody>
<tr>
<td>96-111</td>
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## Week 10
**Mon 27 April**
The role of Gregor Mendel’s experiments in the understanding of inherited characteristics
**Oral presentations due**

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<thead>
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<td>113-119</td>
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## Week 11
**Mon 4 May**
The use of Punnett squares in predicting the result of monohybrid crosses of both dominant and recessive characteristics

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<thead>
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<tbody>
<tr>
<td>120-131</td>
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</table>

## Week 12
**Mon 11 May**
The structure of chromosomes and their role in inheritance
Reproductive technologies and social/ethical implications
Complete LEU Survey in class time

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<thead>
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<tbody>
<tr>
<td>132-137</td>
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<tr>
<td>175-183</td>
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</tbody>
</table>

## Week 13
**Mon 18 May**
**Final Exam**
*(Final Exams may be Held in Week 13 or 14, during the scheduled final exam period. Please refer to the Information Provided on the Portal Noticeboard). Please note that you must pass the final exam in order to pass this unit.*

## Other Important Dates

### Public holidays & make-up days
- Good Friday Make-up: Saturday 28 March
- Easter Monday Make-up: Saturday 11 April
(Please note that online lessons may be organised in lieu of make-up day).

### Census Dates
- Financial Census Date (last day to withdraw without financial penalty) - Friday Week 4, 20 March
- Academic Census Date (last day to withdraw without academic penalty) - Friday Week 8, 17 April

### Exam Period:

### Results Release:
Session 1 2015 results are scheduled to be released to students via e-Student and MQC Student Portal on Friday 12 June 2015

## Policies and Procedures
Macquarie University policies and procedures are accessible from [Policy Central](https://unitguides.mq.edu.au/unit_offerings/51309/unit_guide/print). Students should be aware of the following policies in particular with regard to Learning and Teaching:
Academic Honesty Policy  http://mq.edu.au/policy/docs/academic_honesty/policy.html
Disruption to Studies Policy  http://www.mq.edu.au/policy/docs/disruption_studies/policy.html The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.

In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/support/student_conduct/

Results

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

Academic Honesty

The nature of scholarly endeavour, dependent as it is on the work of others, binds all members of the University community to abide by the principles of academic honesty. Its fundamental principle is that all staff and students act with integrity in the creation, development, application and use of ideas and information. This means that:

- all academic work claimed as original is the work of the author making the claim
- all academic collaborations are acknowledged
- academic work is not falsified in any way
- when the ideas of others are used, these ideas are acknowledged appropriately.

Further information on the academic honesty and schedule of penalties that will apply to breaches please consult the Academic Honesty Policy.

If you are unsure about how to incorporate scholarly sources into your own work, please speak to your Instructor or the Student Services team well in advance of your assessment. You may also enrol in StudyWise or visit the University’s Library Webpage for more resources.

Final Examination Script Viewings and Grade Appeals

If, at the conclusion of the unit, you have performed below expectations, and are considering lodging an appeal of grade and/or viewing your final exam script please refer to http://www.city.m
Please note that any requests to view exam papers must be booked in immediately following results release.

Before submitting a Grade Appeal, please ensure that you read the Grade Appeal Policy and noted valid grounds for appeals.

**Attendance**

Please refer to the Attendance Policy for Foundation Students.

A minimum level of 80% attendance is compulsory for all classes, including consultation sessions and any make-up classes scheduled on weekends. Attendance will be recorded in every lesson and note made of any lateness or period of absence from class.

Where a student is present for only a minor portion of a lesson (for example arrives late, leaves early, leaves the class frequently or for lengthy periods, engages in inappropriate or unrelated activities or does not participate actively in the majority of the lesson) the instructor reserves the right to mark a student absent for that particular lesson and make note of such incidents.

Students should note that absenteeism (including partial absenteeism) not only has a negative impact on not only their overall attendance record and their academic progress, but could also have ramifications for their visas or eligibility for social benefits where relevant.

In cases of unavoidable non-attendance due to illness or circumstances beyond control, students are advised to lodge a Disruption to Studies Notification via ask.mq.edu.au even if they have not missed a formal assessment task so that appropriate records of the reasons for unavoidable attendance can be made on their record.

**Course Progression**

Macquarie City Campus monitors Foundation students' course progress. Please refer to the Course Progress Policy.

To maintain satisfactory program performance students are required to pass 50% or more of their enrolled units in each session.

Students who fail to make satisfactory course progress will be classified as "at risk" students and may have conditions placed upon their enrolment.

International students must comply with the Course Progress policy in order to meet the conditions of their visa.

**Student Support**

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

**Learning Skills**

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study
strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

Student Support at Macquarie City Campus

Macquarie City Campus students who require assistance or support are encouraged to contact Student Services (studentadvisor@city.mq.edu.au) or make an appointment to see a student advisor at Reception on Level 2.

Macquarie University Campus Wellbeing services are also available at the City Campus. If you would like to make an appointment, please email info@city.mq.edu.au or visit their website at: http://www.campuslife.mq.edu.au/campuswellbeing.

Academic Support at Macquarie City Campus

Macquarie city campus provides free tutoring / support classes to its student. Support is available for Accounting, numeracy and essay and report writing, research presentation and referencing skills.

Students who are experiencing difficulties in these areas are advised to attend these classes on a drop-in basis. So that the tutor can assist best, students must bring the work (e.g. assignment draft, essay draft, homework problem) with which that they are having difficulties.

For further information about tutoring services, please refer to the City Campus Portal Noticeboard under Timetables, Tutor Availability.

If you require additional support with university skills, you may also consider enrolling in UNIWISE. UNIWISE is an iLearn resource which provides:

- Online learning resources and academic skills workshops
- What is expected of you as a student at Macquarie University
- Personal assistance with your learning & study related questions
- Key strategies and tips that you can use to achieve successful learning both in and out of the classroom
- The definitions and examples of the types of assignments you will encounter in your units

Additional study spaces are also available on Level 1.

Student Services and Support

Students with a disability are encouraged to contact the Disability Service who can provide
appropriate help with any issues that arise during their studies.

Student Enquiries
For all student enquiries, visit Student Connect at ask.mq.edu.au

IT Help
For help with University computer systems and technology, visit http://informatics.mq.edu.au/help/.

When using the University's IT, you must adhere to the Acceptable Use Policy. The policy applies to all who connect to the MQ network including students.

If you need IT support with any of the Macquarie University Systems please see http://informatics.mq.edu.au/help/, lodge a One Help ticket or call 02 9850-4357.

Students must use their Macquarie University email addresses to communicate with staff as it is University policy that the University issued email account is used for official University communication.

IT Help at Macquarie City Campus
A lab demonstrator is situated in Lab 311 and can help you with any usage of university systems or resetting your password.

You may also refer to the Online Systems Password Document which has been made available on the City Campus Student Portal Noticeboard.

Whilst utilising the City Campus IT facilities, students are expected to act responsibly. The following regulations apply to the use of computing facilities and online services:

- Accessing inappropriate web sites or downloading inappropriate material is not permitted.
- Material that is not related to coursework for approved unit is deemed inappropriate.
- Downloading copyright material without permission from the copyright owner is illegal, and strictly prohibited. Students detected undertaking such activities will face disciplinary action, which may result in criminal proceedings.

Non-compliance with these conditions may result in disciplinary action without further notice.

Equipment available for loan
Students may borrow headphones for use in the Macquarie City Campus computer labs (210, 307, 311, 608) or a video recorder.

Please ask at Level 2 Reception for details. You will be required to provide your MQC Student ID card which will be held as a deposit while using the equipment.
Graduate Capabilities

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcome

- Follow given method to carry out an experiment and write a Scientific Report

Assessment tasks

- Class quizzes
- Practical Test
- Final Examination

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcomes

- Follow given method to carry out an experiment and write a Scientific Report
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.

Assessment tasks

- Class quizzes
- Practical Test
- Oral Presentation & Report
- Final Examination

Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.
This graduate capability is supported by:

Learning outcome

- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.

Assessment tasks

- Class quizzes
- Oral Presentation & Report
- Final Examination

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

- Follow given method to carry out an experiment and write a Scientific Report
- Explain the nature of Homeostasis in mammals and the role of enzymes.
- Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
- Explain the regulation of salt and water in mammals.
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
- Outline the structure of chromosomes and their role in inheritance.

Assessment tasks

- Class quizzes
- Practical Test
- Oral Presentation & Report
- Final Examination

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to
critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

**Learning outcomes**

- Follow given method to carry out an experiment and write a Scientific Report
- Explain the nature of Homeostasis in mammals and the role of enzymes.
- Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
- Explain the regulation of salt and water in mammals.
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
- Outline the structure of chromosomes and their role in inheritance.

**Assessment tasks**

- Class quizzes
- Practical Test
- Oral Presentation & Report
- Final Examination

**Problem Solving and Research Capability**

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

**Learning outcomes**

- Follow given method to carry out an experiment and write a Scientific Report
- Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
- Explain the regulation of salt and water in mammals.
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Discuss the importance of Mendel’s experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
- Outline the structure of chromosomes and their role in inheritance.
**Effective Communication**

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

**Learning outcomes**

- Follow given method to carry out an experiment and write a Scientific Report
- Explain the nature of Homeostasis in mammals and the role of enzymes.
- Demonstrate an understanding of the transport systems in plants and mammals; specifically the role of blood.
- Explain the regulation of salt and water in mammals.
- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Discuss the importance of Mendel's experiments and the role Punnett Squares and Family Trees play in predicting genotypes and phenotypes.
- Outline the structure of chromosomes and their role in inheritance.

**Assessment tasks**

- Class quizzes
- Practical Test
- Oral Presentation & Report
- Final Examination

**Engaged and Ethical Local and Global citizens**

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.
This graduate capability is supported by:

**Learning outcomes**

- Outline the Darwin/Wallace Theory of Evolution and the evidence used to support it.
- Outline the structure of chromosomes and their role in inheritance.

**Assessment tasks**

- Class quizzes
- Oral Presentation & Report
- Final Examination

**Socially and Environmentally Active and Responsible**

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

**Learning outcome**

- Outline the structure of chromosomes and their role in inheritance.

**Assessment tasks**

- Class quizzes
- Final Examination