



# BIOL2410

## Ecology

Session 2, In person-scheduled-weekday, North Ryde 2023

*School of Natural Sciences*

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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

Unit Convenor, and Professor of Marine Ecology

Melanie Bishop

[melanie.bishop@mq.edu.au](mailto:melanie.bishop@mq.edu.au)

Contact via 9850 4075

14 EaR 205

Please email for an appointment (Mon-Thurs); note I do not work Fridays

Credit points

10

Prerequisites

(50cp including [20cp from ((BIOL1310 or BIOL114) or (BIOL1110 or BIOL115) or BIOL121)] or [10cp from ((BIOL1310 or BIOL114) or (BIOL1110 or BIOL115) or BIOL121) and 10cp from (ENVE117 or (ENVS1017 or ENVS117) or GEOS117)] and [10cp from ((STAT1170 or STAT170) or (STAT1371 or STAT171) or FOSE1015)])

Corequisites

Co-badged status

biol6410

Unit description

Ecology is the study of the distribution and abundance of organisms and of the processes that generate these patterns. This unit covers basic ecological concepts at the level of organisms, populations, communities, and ecosystems. We study how interactions among organisms - and between organisms and their physical environment - shape the natural world. This unit also addresses how ecological concepts can be applied to current issues such as climate change, conservation, fisheries and agriculture. A first year Statistics unit is a prerequisite for this unit because we use both descriptive statistics and statistical tests to investigate community structure, population dynamics and how organisms interact with the environment. Many students find that the skills they gain taking BIOL2610 and or BIOL235 complements the skills needed in this Ecology unit.

## 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:

**ULO1:** Describe and analyse how interactions between organisms, and between organisms and the environment, influence population, community and ecosystem patterns

**ULO2:** Critically evaluate and compare ecological concepts and principles, and apply these to find solutions to contemporary environmental issues

**ULO3:** Carry out and correctly interpret a range of equations and statistical tests to measure characteristics of populations and communities

**ULO4:** Develop testable hypotheses to assess ecological patterns and processes, and design comparative experiments to test these

**ULO5:** Demonstrate knowledge of professional responsibility and safe working practices whilst undertaking field work

**ULO6:** Develop a scientific report to communicate a study you have undertaken, demonstrating appropriate linkages to scientific literature and ecological theory

## General Assessment Information

NB: This unit cannot be completed online. All students must attend some face-to-face classes.

### To pass this unit you must

- Attempt all assessments,
- Achieve a total mark equal to or greater than 50%,
- Achieve at least 40% in the final examination,
- Attend the Stanwell Tops Fieldtrip (or in the case of illness or misadventure an approved make-up activity)

Students scoring a final exam mark of <40% but that would otherwise meet all unit requirements will be offered a supplementary exam.

### Hurdle Assessments

**Final exam (minimum mark - 40%):** The final exam assesses the students' attainment of Unit Learning Outcomes (ULOs) 1-4. Although some of these ULOs are also assessed elsewhere, a mark of 40% is considered the minimum benchmark for demonstrating their adequate attainment. Students who do not attain this mark, but have attended the exam and met all other unit requirements will be given the opportunity to resit the exam in the supplemental period.

### Assignment submission

The Powerpoint slides for the oral presentation are to be uploaded to iLearn via the assignment submission box and the Practical Report via the TURNITIN link by 11:55 pm on the due date.

TURNITIN is a powerful online tool for the detection of plagiarism. It works by comparing the text of a submitted document (i.e., your assignment) with the work of your current classmates, past students in Ecology and other courses at Macquarie, as well as published material in books, journals and on the web.

### Late Assessment Submission Penalty

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark of the task) will be applied for each day a written report or presentation assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. The submission time for all uploaded assessments is 11:55 pm. A 1-hour grace period will be provided to students who experience a technical concern.

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for [Special Consideration](#).

### Special Consideration

The [Special Consideration Policy](#) aims to support students who have been impacted by short-term circumstances or events that are serious, unavoidable and significantly disruptive, and which may affect their performance in assessment. If you experience circumstances or events that affect your ability to complete the assessments in this unit on time, please inform the convenor and submit a Special Consideration request through [ask.mq.edu.au](http://ask.mq.edu.au).

## Assessment descriptions

### Presentation (15%)

You will prepare a 6 minute presentation on a topic of your choosing, related to the application of ecology to real-world issues. The purpose of this is to demonstrate your understanding of how ecological concepts can be applied to understand and solve real-world problems, and your ability to communicate scientific issues to a lay audience. **You can choose a topic from the list provided in iLearn, or come up with your own based on the guidelines provided above the list.** You will deliver your presentation in the week 4 and 5 labs (or, if you have enrolled in the infrequent attendance offering, the on-campus session). All students must upload Powerpoint slides to iLearn by **11:55 pm Fri 11 Aug**. Late submission of slides without approved Special Consideration will attract a penalty as per the assessment policy. **A marking rubric is provided on iLearn.** Please consult this when developing your presentation.

### Mid-semester test (25%)

There will be a mid-semester test held in Week 7. This will be 50 minutes in length, and will be an open book, online quiz (that can be completed on or off campus) that may cover all work from Weeks 1-7, including lectures, practicals and reading material. For weekday attendance students, this will run during the scheduled lecture session on Wed 6 Sept. For infrequent attendance students, the test will be open on the evening of Wed 6 Sept, from 7-9 pm (your 50 min will count down from the time you start the test). Students who cannot make this time are required to the convenor at email [biol2410@mq.edu.au](mailto:biol2410@mq.edu.au) to make alternative arrangements. The

tests will be multiple choice and will include numerical exercises similar to those taught in lectures. Questions will be randomly allocated to students. Note that if you are unwell and cannot undertake the test during your scheduled time, a special consideration will need to be submitted to organise a new time to sit the test. Some example questions will be provided in iLearn in the weeks prior to the assessment.

### Fieldtrip Practical Report (25%)

At the Stanwell Tops fieldtrip, you will undertake a group-based project. Students will individually write this up in the style of a scientific paper for the journal *Austral Ecology*. This task is designed to assess your understanding of ecological concepts, limitations associated with fieldwork, how to source and utilise appropriate scientific literature to craft an argument, and scientific communication conventions. The word limit for this report is 1500 words (excluding Abstract, Acknowledgement and References). Any text beyond 1500 words will not be read by the markers; shorter submissions are acceptable. Further details can be found in the Field Trip practical notes (on iLearn). **A marking rubric is provided on iLearn, as well as a template for completing your report and examples of previous studies.** Please consult these when preparing your report.

### Examination (35%)

The final exam will be held during the Semester 2 Exam Period and will be 2 hr (plus 10 min reading time). This will be an in-person, invigilated exam. Please consult the University Handbook to determine the commencement and finishing dates of the compulsory exam period. You will be permitted to take a non-programmable calculator and/or English language dictionary into the exam. Notes will not be permitted. While most of the material will focus on Weeks 8-13, some questions will also require knowledge of subject matter from Weeks 1-7.

The exam questions have been carefully written to test understanding, not rote learning:

- You will NOT be required to regurgitate definitions or the details of case studies we have discussed in class;
- You WILL need to be able to apply ecological principles to solve real-world problems.

Specifically, the exam (out of 70) will be comprised of three sections, and it is recommended you spend ~40 min on each:

(A) a multiple choice section where you will be asked to interpret figures and tables and synthesise information (20 questions, 1 mark each; to give 20 possible marks);

(B) a short answer section where you will be asked to solve problems by integrating ecological concepts you have learnt during the course (6 questions, 5 marks each, to give 30 possible marks);

(C) longer response questions where you will use your ecological knowledge to address an applied (conservation or management) problem (2 questions, 10 marks each, to give 20 possible marks)

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Oral-based presentation</a>	15%	No	Slides: Fri 11 August; Presentation: Week 4-5 pracs
<a href="#">Mid-semester test</a>	25%	No	Wed 6 September
<a href="#">Practical Report</a>	25%	No	Sun 15 October
<a href="#">Final Exam</a>	35%	Yes	Semester 2 exam period

### Oral-based presentation

Assessment Type <sup>1</sup>: Presentation

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Slides: Fri 11 August; Presentation: Week 4-5 pracs**

Weighting: **15%**

You will give a short presentation on a key topic in ecology

On successful completion you will be able to:

- Describe and analyse how interactions between organisms, and between organisms and the environment, influence population, community and ecosystem patterns
- Critically evaluate and compare ecological concepts and principles, and apply these to find solutions to contemporary environmental issues

### Mid-semester test

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 13 hours

Due: **Wed 6 September**

Weighting: **25%**

There will be an online quiz. The questions may be based on lectures, reading materials and practicals, and will test your knowledge of ecological concepts and your understanding of equations used in different subfields of ecology.

On successful completion you will be able to:

- Describe and analyse how interactions between organisms, and between organisms and the environment, influence population, community and ecosystem patterns
- Carry out and correctly interpret a range of equations and statistical tests to measure characteristics of populations and communities
- Demonstrate knowledge of professional responsibility and safe working practices whilst undertaking field work

## Practical Report

Assessment Type <sup>1</sup>: Practice-based task

Indicative Time on Task <sup>2</sup>: 13 hours

Due: **Sun 15 October**

Weighting: **25%**

You will write a scientific report, in the format of a paper for the journal *Austral Ecology*, describing one of the practical experiments, and discussing principles of fieldwork. The report will be uploaded to Turnitin.

On successful completion you will be able to:

- Describe and analyse how interactions between organisms, and between organisms and the environment, influence population, community and ecosystem patterns
- Carry out and correctly interpret a range of equations and statistical tests to measure characteristics of populations and communities
- Develop testable hypotheses to assess ecological patterns and processes, and design comparative experiments to test these
- Demonstrate knowledge of professional responsibility and safe working practices whilst undertaking field work
- Develop a scientific report to communicate a study you have undertaken, demonstrating appropriate linkages to scientific literature and ecological theory

## Final Exam

Assessment Type <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 23 hours

Due: **Semester 2 exam period**

Weighting: **35%**

**This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)**

The final exam will be held during the Semester 2 Exam Period. Please consult the University Handbook to determine the commencement and finishing dates of the compulsory exam period. This exam will assess your understanding and interpretation of ecological patterns, processes and concepts, and your ability to use these to suggest solutions to contemporary environmental issues

On successful completion you will be able to:

- Describe and analyse how interactions between organisms, and between organisms and the environment, influence population, community and ecosystem patterns
- Critically evaluate and compare ecological concepts and principles, and apply these to find solutions to contemporary environmental issues
- Carry out and correctly interpret a range of equations and statistical tests to measure characteristics of populations and communities
- Develop testable hypotheses to assess ecological patterns and processes, and design comparative experiments to test these
- Demonstrate knowledge of professional responsibility and safe working practices whilst undertaking field work
- Develop a scientific report to communicate a study you have undertaken, demonstrating appropriate linkages to scientific literature and ecological theory

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<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

## Delivery and Resources

The unit consists of:

- 2 lectures per week: Mon 0900 (23WW T1) AND Wed 1100 (23WW T2)
- a 3 hour practical per week (weeks 2-7 only): Mon 1000-1300, Mon 1400-1700, OR Tues 1000-1300, 14 EaR
- a **compulsory** field trip to Stanwell Tops in the September mid-semester break that **all**



students enrolled in this unit must attend: **A:** 18-20 September OR **B:** 20-22 September. **Students who cannot attend the fieldtrip should NOT enrol in this unit.**

**Week 1 classes:** LECTURES commence in **week 1** and PRACTICALS in **week 2**

## Required and recommended texts and/or materials

There is no prescribed text book for this course. Instead, I have compiled a collection of materials (papers, videos, websites) that directly complement the lectures. These are available via the iLearn site for this unit. It is expected that you review these materials before coming to each lecture.

If you would also like to consult a textbook (this is not compulsory), I suggest:

Begon M, Howarth RW, Townsend CR (2014) Essentials of Ecology. 4th edition. Blackwell Scientific Publications, Cambridge. The 3rd (2008) edition is also acceptable, if you can come by it second hand.

## Unit web page

PowerPoint slides, lecture recordings, unit readings, copies of all unit hand-outs and helpful resources for completion of assessments will be available through iLearn. Consequently, it is strongly recommended that you interact with the BIOL2410/6410 online unit regularly. **To access the online unit, go to <https://iLearn.mq.edu.au/login/MQ/> and type in your Macquarie OneID Username and password.**

**New to iLearn?** You can find out more at: <https://students.mq.edu.au/support/technology/systems/ilearn>

**Experiencing difficulties?** contact the [IT Service Desk](mailto:help@mq.edu.au) at [help@mq.edu.au](mailto:help@mq.edu.au).

## Methods of Communication

We will communicate with you via your university email and through announcements on iLearn. Queries to convenors can either be placed on the iLearn discussion board or sent to the unit convenor via the contact email ([biol2410@mq.edu.au](mailto:biol2410@mq.edu.au)) on iLearn.

## COVID Information

For the latest information on the University's response to COVID-19, please refer to the Coronavirus infection page on the Macquarie website: <https://www.mq.edu.au/about/coronavirus-faqs>. Remember to check this page regularly in case the information and requirements change during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

## Unit Schedule

### Lecture timetable

*Part 1. Organisms and their environment*

## WEEK 1

- 24<sup>th</sup> July 1. An introduction to ecology  
26<sup>th</sup> July 2. Conditions, resources and the niche concept

## WEEK 2

- 30<sup>th</sup> July 3. Distributions  
2<sup>nd</sup> August 4. Global patterns of productivity

## WEEK 3

- 7<sup>th</sup> August 5. Ecological strategies and their evolution  
9<sup>th</sup> August 6. Population growth and intraspecific competition

### *Part 2. Interactions among species*

## WEEK 4

- 14<sup>th</sup> August 7. Interspecific competition  
16<sup>h</sup> August 8. Predation and herbivory

## WEEK 5

- 21<sup>st</sup> August 9. Parasitism and disease  
23<sup>d</sup> August 10. Facilitation and mutualisms

### *Part 4. Communities and ecosystems*

## WEEK 6

- 28<sup>th</sup> August 11. Community structure  
30<sup>th</sup> August 12. Community function

## WEEK 7

- 4<sup>th</sup> September 13. Preparing for the field trip  
6<sup>th</sup> September MID SEMESTER TEST

MID SEMESTER BREAK

## WEEK 8

- 25<sup>th</sup> September 14. Disturbance and succession  
27<sup>th</sup> September 15. Island biogeography

## WEEK 9

- 2<sup>nd</sup> October PUBLIC HOLIDAY – NO LECTURE  
3<sup>rd</sup> October 16. The flux of energy through food webs

## WEEK 10

9<sup>th</sup> October 17. The flux of matter through food webs

11<sup>th</sup> October 18. Spatial subsidies

*5. Applied ecological issues*

**WEEK 11**

16<sup>th</sup> October 19. Microbial ecology and one health

18<sup>th</sup> October 20. Invasive species and their management

**WEEK 12**

23<sup>rd</sup> October 21. Global change biology

25<sup>th</sup> October 22. Ecological impacts and their assessment

**WEEK 13**

30<sup>th</sup> October 23. Restoration and reconciliation ecology

1<sup>st</sup> November 24. Managed ecosystems: fisheries and forestry

## Practical classes

**For all practical sessions (including Oral Presentations in weeks 4 and 5) you must be wearing covered shoes to be allowed entry to the labs and there is strictly no eating or drinking.**

Week 1	24-25 July	No prac
Week 2	30 July - 1 August	Practical induction/censusing deep sea life
Week 3	7-8 August	Carbon accounting ( <b>fieldwork</b> )
Week 4	14-15 August	Oral presentations 1
Week 5	21-22 August	Oral presentations 2
Week 6	28-29 August	Herbivory and enemy release hypothesis
<b>(fieldwork)</b>		
Week 7	4-5 September	Species richness ( <b>fieldwork</b> )

## Practical and Fieldwork Risks

All fieldwork carries some amount of risk. For Ecology, this is minimal as we will only be sampling in the Ecology Reserve which adjoins Lane Cove National Park, and at Stanwell Tops during the 2.5-day fieldtrip. However, just as with any workplace that requires staff to work in the field, there are safety protocols that must be followed, and fieldwork risk assessments that must be completed.

Please read these rules about fieldwork:

1. Attendance at all practicals, whether on campus, or at the fieldtrip, is compulsory.
2. For all face-to-face practicals, whether on-campus or on the fieldtrip, you must be wearing covered shoes that are comfortable to walk reasonable distances in (i.e. several kilometres).
3. Please note that the following items of clothing are not acceptable during fieldwork: tops showing mid-riffs, singlets, skirts, shorts or pants showing the ankles. This isn't because we are trying to annoy you or that we don't understand fashion, it is because wearing these clothes increases the risk of ticks, leeches, sunburn, and cuts and scratches that come from bush-bashing (i.e. crawling through dense vegetation). Further, long skirts present an entanglement risk out in the field. One of the learning outcomes of this unit is "Demonstrate knowledge of professional responsibility and safe working practices whilst undertaking field work". Therefore, you are required to wear field-safe clothing and shoes.
4. All pracs in the Ecology Reserve and the Stanwell Tops fieldtrip require that fieldwork risk assessments must be completed well in advance. Failure to do so by the due date will mean you cannot undertake the practical or attend the fieldtrip. If you do not attend the fieldtrip, you must withdraw from the unit. We will discuss these forms in the first practical in Week 2, and links to them will be posted on iLearn.

The pracs will go ahead **regardless of the weather**, so bring rain gear if the weather looks doubtful (no umbrellas – these cannot open in closed canopy and your hands will be full with equipment).

## Field trip (mid-semester break, September)

All students are required to attend a field trip at Stanwell Tops. You may attend one of two sessions: **A: 18-20 September** OR **B: 20-22 September**. Students who have genuine clashes (e.g. other field trips, work or carer responsibilities) will be given first preference of fieldtrip. Others are invited to indicate their preferred trip, with remaining places filled on a first-come first-served basis (it is important that we have equal numbers of students on each). Places on specific fieldtrips are not confirmed until full payment has been made. Sign-ups for field-trips will be done electronically via Google docs. The web link for sign-up will be made available on iLearn from **Mon 30 July**. Please sign up by the end of week 4 (**Fri 18 August**).

### Highlights

- Nocturnal mammal spotlighting
- Early morning bird watching
- Native plant identification
- Getting to know your fellow students and many of the Natural Sciences staff

### Cost

The cost of the fieldtrip will be approximately \$220 (to be confirmed). This amount will be due by **5pm Friday 18 August** (end of Week 4). Instructions on how to pay will be placed on iLearn. Once you have paid, you will need to register your receipt number electronically in the Fieldtrip receipt database and confirm your attendance. If you have not done this by 5pm Friday 18 August, it will be assumed that you are not attending the fieldtrip and are therefore withdrawing from the unit.

Transport and Address: You will need to make your own way to the field site (The Tops Conference Centre). The address is:

The Tops Conference Centre 51 Bendena Garden Stanwell Tops

You can plan your trip on public transport using “Trip planner” <https://transportnsw.info/trip#/> There is plenty of parking and you are welcome to bring your own car (please make sure it is roadworthy and appropriately insured) to drive to the site. We will help to facilitate lifts for those who don't have a vehicle. The drive takes 1.5-2 hr from Macquarie University (regardless of what google maps predicts)

### *Program*

You will spend a half day prac studying each of five different ecological communities: fish, birds, plants, aquatic invertebrates, and terrestrial invertebrates. One the last day you will be working in small groups to compare the distribution and abundance of organisms between two habitats of your choice. This project will form the basis of the second Practical Report (due Sun 15 Oct, all students). A detailed program will be provide 1-2 weeks before the fieldtrip.

## **Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au)

[du.au](#)) and use the [search tool](#).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

## Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) 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](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

## Student Support

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

## The Writing Centre

[The Writing Centre](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)

- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

## Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## Changes from Previous Offering

We value student feedback to be able to continually improve the way we offer our units. As such we encourage students to provide constructive feedback via student surveys, to the teaching staff directly, or via the FSE Student Experience & Feedback link in the iLearn page.

Student feedback from the previous offering of this unit was very positive overall, with students pleased with the clarity around assessment requirements and the level of support from teaching staff. To better accommodate the interests Medical Science students, a lecture on microbial ecology and one health has been added. Lectures will make greater use of infectious disease and health examples in illustrating key points.