



# 1. Staff

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Course Convenor:

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## 2.4 Relationship between course and program learning outcomes and assessments

Course Learning Outcome (CLO)	Program Learning Outcome (PLO)	Activities and
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## 3. Strategies and approaches to learning

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### 3.1 Learning and teaching activities

**Online lectures:** Lectures are pre-recorded and available online for viewing at a time of your choosing. Each lecture will also include some written material and quiz questions. They will be delivered by a wide range of BEES academic staff and cover a wide variety of topics, grouped into four modules. All lecture topics will investigate the following three questions as common themes:

1. How is data on the natural world collected?
2. What skills are needed to work with this data?
3. What jobs are available to people with these skills?

**Laboratory classes:** These are face-to-face classes in Teaching Lab 6 (E26-G007). The labs will be delivered by a variety of BEES academic staff and cover a wide variety of topics. Activities will include making measurements, observing experiments, and problem solving.

**Online computing exercises:** Computing exercises will be available online and can be completed at

**Workload:** The normal workload expectations at UNSW (<https://student.unsw.edu.au/uoc>) are approximately 25 hours per term for each unit of credit. This included class lectures, labs, computing exercises, fieldtrips, and time spent on assessments.

**Illness:**

<b>Module</b>	<b>Week</b>	<b>Starting date</b>	<b>Lecture topics</b>	<b>Lab activity</b>	<b>Computer exercise</b>	<b>Assessments</b>
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## 4.2 Computer exercises

The computer exercises focus on building quantitative skills for data analysis relevant to all modules.

<b>Collecting data</b>	Methods of sampling the natural world, including using new technologies, and accessing existing data.
<b>Managing data</b>	Digitising, tidying, and manipulating data, including integrating digital technologies with field work.
<b>Visualising data</b>	Simple graphics, plots, and mapping, including visualising spatial data.
<b>Analysing data</b>	Summarising data, linear models, and investigating patterns.
<b>Communicating results</b>	Skills for report writing, focusing on the showing results using visual graphics.

### Required Software

The following software is required:

- Microsoft Excel (<https://www.myit.unsw.edu.au/software-students>)
- Quantum GIS (QGIS) latest stable release 3.22.10 (<https://www.qgis.org>)
- Cloustor SWAN through Chrome, Firefox, or Vivaldi at <https://cloudstor.aarnet.edu.au>
- Install the Avenza maps app on your phone or tablet <https://www.avenzamaps.com>

### Optional software

If you wish to run Jupyter notebooks containing R and python code on your own computers, you can do so using Anaconda. You might like to run R code using RStudio, but python requires Anaconda.

- Download and install Anaconda (Python 3) from <https://www.anaconda.com/distribution> accepting all the default options.
- In Windows terminal and type: `conda activate` . In MacOS open a terminal and type: `conda activate`
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## 5. Assessment

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### 5.1 Assessment tasks

Assessment task	Length	Weight	Date
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## 5.2 Assessment criteria and standards

The Quiz assessment will require you to have completed the first two labs and first three computing exercises. It will require some numerical calculations and will include questions on interpreting the results of analysis, but you will not have to write any code. The reports will be assessed using marking rubrics, which will be made available through Moodle. All assessments will follow the UNSW grading system: <https://student.unsw.edu.au/grade>. You should also familiarise yourself with the UNSW assessment policy: <https://student.unsw.edu.au/assessment>

## 5.3 Submission of assessment tasks

Students will need to submit their assessments using Turnitin through the course Moodle page, as either a Word document or a PDF. Late work will be penalised by 5% of the value of the assignment per day (not including weekends). After 5 late days the work will be given a value of 0%. This is UNSW policy and there are no exceptions unless an extension is provided. Extensions are only provided by the Course Convenor (Adrian Fisher) for valid reasons (medical or otherwise), following the UNSW Special Consideration process (<https://www.student.unsw.edu.au/special-consideration>).

## 5.4. Feedback on assessment

Marking of your assessments will be provided by lecturers with assistance from academic staff in the School of BEES and a peer review process on occasion. Where multiple markers are involved, the marks will be checked for consistency. Some specific feedbacks from the course convenor will be provided.

## 7. Readings and resources

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This course is available online through the UNSW Moodle system which can be accessed by:

1. Going to <https://moodle.telt.unsw.edu.au/login/index.php>

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3. Look for BEES1041

The BEES1041 Moodle page will contain information regarding course announcements, lectures, labs, computer exercises and assessments. You will find that the course has been divided into various sections related to Course Information, Trimester Weeks, and others. Please visit the Support Section at <https://student.unsw.edu.au/moodle-support> for more information and tutorials about Moodle.

## 8. Administrative matters

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### 8.1 Equity and Diversity

Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convener (