UNSW Course Outline

PHCM9785 Predictive Modelling in Public Health - 2024

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General Course Information

Course Code : PHCM9785
Year : 2024
Term : Term 2
Teaching Period : T2
Is a multi-term course? : No
Faculty : Faculty of Medicine and Health
Academic Unit : School of Population Health
Delivery Mode : Multimodal
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Undergraduate, Postgraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

This course is offered in two modes: either face to face (on-campus) and fully online.

Predictive modelling is a rapidly developing area in public health. Already widely applied in

predictive studies of interventions such as vaccination, modeling is a key input to policy and planning decisions in public health. Understanding how trends in disease will unfold in future years helps policy makers evaluate and prepare for future priorities. The focus in this course is on building predictive models of disease trends in excel and on assessing the value of modelling results for policy.

Course Aims

This course aims to provide you with knowledge and skills to develop predictive models in public health with a focus on outcomes such morbidity and mortality. Further, the course aims to develop your ability to apply these models to practical questions, including the impact of interventions on outcomes for cardiovascular disease and infectious diseases. Finally, the course aims to provide you with the ability to think critically about the role of modelling in public health, in particular when it is appropriate and the impact of uncertainty on recommendations from models.

Relationship to Other Courses

Assistance with progression checking:

If you are unsure how this course fits within your program, you can seek guidance on optimising your program structure from staff at the Nucleus Student Hub.

Progression plans for UNSW Medicine and Health programs can be found on the UNSW Medicine & Health website.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Discuss and explain the value of modelling approaches in policy formulation and planning for disease prevention and control
CLO2 : Assess the suitability of a modelling approach to address policy questions in relation to disease prevention and control
CLO3 : Understand, design and construct single-cohort models for demographic and disease risk projections in Excel
CLO4 : Extend single-cohort models to whole of population models for projecting disease incidence through time
CLO5 : Implement disease interventions in projective models applied to case-studies from both communicable and non-communicable disease

Course Learning Outcomes	Assessment Item
CLO1 : Discuss and explain the value of modelling approaches in policy formulation and planning for disease prevention and control	• Policy Relevant Modelling
CLO2 : Assess the suitability of a modelling approach to address policy questions in relation to disease prevention and control	• Assessing and Interpreting Results from Health State Models • Policy Relevant Modelling
CLO3 : Understand, design and construct single-cohort models for demographic and disease risk projections in Excel	• Implementing Demographic Models in Excel • Assessing and Interpreting Results from Health State Models
CLO4 : Extend single-cohort models to whole of population models for projecting disease incidence through time	• Implementing Demographic Models in Excel
CLO5 : Implement disease interventions in projective models applied to case-studies from both communicable and non-communicable disease	• Assessing and Interpreting Results from Health State Models

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Learning and Teaching in this course

All course materials and course announcements are provided on the course learning management system, Moodle (or Open Access) or in the case of the recordings, via Microsoft Teams.

By accessing and using the ICT resources provided by UNSW, you are agreeing to abide by the 'Acceptable Use of UNSW ICT Resources' policy particularly on respect for intellectual property and copyright, legal and ethical use of ICT resources and security and privacy.

Additional Course Information

Teaching strategies

All the School of Population Health courses use Moodle to some extent. Moodle is a learning management system that is used to deliver blended and online courses throughout UNSW. The Moodle component of your course is like a mini-website that holds the key resources for your course (e.g. detailed course schedule, access to readings), a place for you to submit assignments online, and to raise questions about course content or assignments. If you are unfamiliar with Moodle please visit: https://student.unsw.edu.au/moodle-support

This course is using Microsoft Teams for live lectures/tutorials, and recordings. Details about how to download and use Microsoft Teams can be found here: https://student.unsw.edu.au/teams-students. **Use your UNSW student Microsoft Teams account** (not a personal or work account) to access the course on Microsoft Teams.

Lectures for internal and external students: Lectures are held weekly on Wednesday afternoon (see timetable) on Microsoft Teams. *Internal students are expected to attend live,* external students are welcome to either attend live or to watch the recording (accessed via course Microsoft Teams site).

Recording of lectures on Microsoft Teams

Lectures will be recorded and recordings made available via Microsoft Teams. **Students should be advised that they are consenting to the recording by their participation in the activity**. The purpose of recordings is to enhance the student experience by supporting engaged learning in an online teaching environment and ensure equitable access to all course resources for our students. If you have concerns about accessing lecture recordings, or being recorded, please contact the Course Convenors.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Implementing Demographic Models in Excel Assessment Format: Individual Short Extension: Yes (2 days)	20%	Start Date: Not Applicable Due Date: 24/06/2024 04:00 PM
Assessing and Interpreting Results from Health State Models Assessment Format: Individual Short Extension: Yes (2 days)	30%	Start Date: Not Applicable Due Date: 15/07/2024 04:00 PM
Policy Relevant Modelling Assessment Format: Individual Short Extension: Yes (2 days)	50%	Start Date: Not Applicable Due Date: 12/08/2024 04:00 PM

Assessment Details

Implementing Demographic Models in Excel

Assessment Overview

This assignment focuses on your ability to implement demographic analysis and models in

excel, covering the material discussed in Module 1 (weeks 1 and 2 of the course).

Individual feedback will be provided to you within 10 working days. Feedback to your entire cohort will provided via moodle and discussed in the next class session.

Course Learning Outcomes

- CLO3 : Understand, design and construct single-cohort models for demographic and disease risk projections in Excel
- CLO4 : Extend single-cohort models to whole of population models for projecting disease incidence through time

Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

Assessment Length

Excel sheet

Submission notes

Refer to Moodle for submission information.

Assessment information

Generative AI may be used to providing drafting assistance.

As this assessment task involves some planning or creative processes, you are permitted to use software to generate initial drafts. However, you must develop or edit those ideas to such a significant extent that what is submitted is your own work, i.e., what is generated by the software should not be a part of your final submission. It is a good idea to keep copies of your initial drafts to show your lecturer if there is any uncertainty about the originality of your work. Please note that your submission will be passed through an AI-text detection tool. If your marker has concerns that your answer contains passages of AI-generated text that have not been sufficiently modified you may be asked to explain your work, but we recognise that you are permitted to use AI generated text as a starting point and some traces may remain. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

Assignment submission Turnitin type

This is not a Turnitin assignment

Assessing and Interpreting Results from Health State Models

Assessment Overview

In this written report you will focus on applying and interpreting results from health state models and related disease areas as discussed in Modules 2 and 3 (weeks 3 to 6 of the course).

Individual feedback will be provided to you within 10 working days. Feedback to your entire cohort will provided via moodle and discussed in the next class session.

Course Learning Outcomes

- CLO2 : Assess the suitability of a modelling approach to address policy questions in relation to disease prevention and control
- CLO3 : Understand, design and construct single-cohort models for demographic and disease risk projections in Excel
- CLO5 : Implement disease interventions in projective models applied to case-studies from both communicable and non-communicable disease

Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

Assessment Length

1500 words and excel submission

Submission notes

Refer to Moodle for submission information.

Assessment information

Generative AI should not be used when completing this assessment.

In general, this paper relies primarily on completing a series of tasks in excel and it is important that you present your own work here. Use of a generative AI tool to try to assist with this runs a major risk of introducing of significant errors unless carefully checked - in practice you would need to complete the tasks yourself as a check in order to be confident that any generative-AI results were correct. As such the advice is not to use these tools when completing this assessment.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Policy Relevant Modelling

Assessment Overview

In this assessment item, you will be provided with a choice of published modelling studies on important public health topics and asked to first summarise the modelling approach and findings before drawing on relevant literature to interpret and critique the findings for a policy audience.

Individual feedback will be provided to you within 10 working days. Feedback to your entire cohort will provided via moodle.

Course Learning Outcomes

- CLO1 : Discuss and explain the value of modelling approaches in policy formulation and planning for disease prevention and control
- CLO2 : Assess the suitability of a modelling approach to address policy questions in relation to disease prevention and control

Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

Assessment Length

2500 words

Submission notes

Refer to Moodle for submission information.

Assessment information

Generative AI may be used to providing drafting assistance.

As this assessment task involves some planning or creative processes, you are permitted to use software to generate initial drafts. However, you must develop or edit those ideas to such a significant extent that what is submitted is your own work, i.e., what is generated by the software should not be a part of your final submission. It is a good idea to keep copies of your initial drafts to show your lecturer if there is any uncertainty about the originality of your work. Please note that your submission will be passed through an AI-text detection tool. If your marker has concerns that your answer contains passages of AI-generated text that have not been sufficiently modified you may be asked to explain your work, but we recognise that you are permitted to use AI generated text as a starting point and some traces may remain. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

General Assessment Information

Detailed instructions regarding assessments for this course are provided on the course Moodle page.

For student information on results, grades, and guides to assessment see: https://student.unsw.edu.au/assessment

Adopting a critical approach to your assignments

It is important that you adopt a critical approach to the material that you source for assignments, to the required readings, and to other resources you are presented with during the course. Think about and evaluate the material which you are reading and which you are presenting in assignments. Attempt to cast aside your assumptions and biases and attempt to assess the logic and consistency of the material in light of the supporting evidence. Wide reading on a topic facilitates this.

Referencing

School of Population Health requires students to use either APA or Vancouver referencing styles for all assignments for this course.

It is your responsibility to learn either APA or Vancouver referencing and use it consistently to acknowledge sources of information (citing references). Failure to reference correctly may limit marks to PS or below. Guidelines for acknowledging sources of information can be found on the following websites:

- UNSW Library: http://subjectguides.library.unsw.edu.au/elise
- UNSW Academic Skills and Support: https://student.unsw.edu.au/skills

Word limits

All word limits are to be strictly adhered to (i.e. there is no 10% leeway). Word limits include all text (e.g. headings, title, main text) and exclude tables and figures, in-text citations (if you are using APA) and reference lists. Exceptions may apply. Please refer to your individual task

description for exceptions..

Turnitin

All written assessment tasks in courses in the School of Population Health use Turnitin. Turnitin is a similarity and generative AI detection software that enables assignments to be checked against the submitted assignments of other students using Turnitin, as well as the internet. If you are unfamiliar with the Turnitin software, a demonstration can be found at: https://student.unsw.edu.au/turnitin

Originality and Generative AI reports

In School of Population Health courses, access to the originality report of your submission through Turnitin is available to you. Students do not have access to the Generative AI report.

In School of Population Health courses, you are permitted to resubmit until the assignment due date (each file uploaded overwrites the previous version). This will help you in self-reviewing and revising your submission until the due date. **No resubmissions will be allowed after the due date and time of the assignment.** Therefore, draft assignments submitted in this way will be regarded as the final version at the due date if you have not uploaded a subsequent, finalised version. IMPORTANT: there are delays in the availability of subsequent Originality reports. For more details, see https://www.student.unsw.edu.au/turnitin

Grading and feedback

You will be provided with feedback on your assignment via Moodle. You will be marked according to the marking assessment criteria listed for that specific assessment task. The aim of any academic feedback for an assessment task is not only to grade your work. Importantly, it is also to help you to identify your strengths and weaknesses, and how you can improve and progress in your studies and professional abilities.

In addition to feedback, you will receive a mark that reflects the overall quality of the work you have submitted across the marking criteria. The marking criteria for assessments in this course are provided on Moodle.

Please note these grading criteria are:

- Not intended to be a **rigid formula** for interpreting your result. The descriptive criteria for each

grade provides the basis for consistent standards within and across our courses while still embracing academic judgement on how well you have achieved the standard required.

- Applied to **each assessment** task within a course. That is, the grading policy is used with each assessment task specified for a course. Your final grade for a course is dependent on the combined sum of the grades across the number of specified assessment tasks.

- Based on a **criterion-referenced assessment**. That is grades are awarded on how well a student meets the standard required for a particular assessment task, not on how well they do compared to other students in the course.

Feedback on assessment and review of results

If you believe the mark you've received for an assessment task doesn't reflect your performance you should first check you have grounds to seek a review: https://student.unsw.edu.au/results

In the first instance, you should discuss your performance with your Course Convenor. In your communication, you should clearly outline the reasons you are seeking clarification and do so against the marking criteria for the assessment.

Students may also formally apply to have their results reviewed. An application, which includes a justification for the review must be submitted through The Nucleus (https://student.unsw.edu.au/results) **within 5 days** of receiving the result. A review of results may result in an increase or decrease in marks.

Grading Basis

Standard

Requirements to pass course

In order to pass this course students must:

- Achieve a composite grade of at least 50 out of 100
- Meet any additional requirements specified in the assessment details section and on Moodle.

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Module	Demographics Topics covered: • Basics of demography • Factors governing population change • Period and cohort life-tables
Week 2 : 3 June - 9 June	Module	Demographics Topics covered • Time and age dependence • Birth and fertility trends • Migration trends
Week 3 : 10 June - 16 June	Module	Health state modelling • Projections using demographic change alone • Health-state models without demographics • Making valid comparisons
Week 4 : 17 June - 23 June	Module	Health state modelling • Looking at outcomes other than death • Including time and age effects • Approaches to projection
Week 5 : 24 June - 30 June	Module	Infectious disease models • Introduction to infectious disease models • The SI and SIR models
Week 6 : 1 July - 7 July	Module	Infectious disease models • Models of endemic infection • Immunity, R0 and herd protection • Incorporating interventions such as vaccination
Week 7 : 8 July - 14 July	Module	Modelling for policy • Accounting for uncertainty • Sensitivity analysis • Use of scenarios
Week 8 : 15 July - 21 July	Module	Modelling for policy • Tranparency and accountability • Other modelling paradigms • The importance of validation
Week 9 : 22 July - 28 July	Module	Modelling for Policy Modelling case study part 1.
Week 10 : 29 July - 4 August	Module	Modelling for policy Modelling case study part 2

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

General Schedule Information

The times and locations of classes can be found on myUNSW under Class Timetable.

Students enrolled in online courses should also refer to Moodle as some classes are not centrally timetabled (e.g., workshops) and will not appear on the timetable website.

The expected engagement for all UNSW 6UOC courses is 150 hours per term. This includes lectures, tutorials, readings, and completion of assessments.

Course Resources

Prescribed Resources

Learning resources for this course consist of the following:

Available on moodle

1. Course notes
2. Course readings (available on Leganto)
3. Lectures slides
4. Relevant course resources for each Module
5. Other (as required).

Available on teams

1. Lecture recordings

There are no set text books for this course

Recommended Resources

Recommended resources for this course are provided on the course Moodle page.

I recommend you spend some time refreshing your Excel skills. In particular I would suggest watching some of the videos and replicating the exercises found here https://edu.gcfglobal.org/en/topics/excel/, in particular the "Excel", "Excel tips" and "Excel formulas" tutorials.

ENDNOTE: As a UNSW student Endnote is freely available to you. If you don't already use Endnote you are recommended to download it and learn it now: https://www.myit.unsw.edu.au/software-students

You can find details about Endnote training here: https://www.library.unsw.edu.au/research/support-for-your-research/managing-references

Additional Costs

There are no additional costs associated with this course.

Course Evaluation and Development

Student feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

We use student feedback from myExperience surveys to develop and make improvements to the course each year. We do this by identifying areas of the course that require development from both the rating responses and written comments. Please spare a few minutes to complete the myExperience surveys for this course posted at the top of the Moodle page at the end of term.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	James Wood		Samuels Building		Contact via Moodle or email	Yes	Yes

Other Useful Information

Academic Information

As a student of UNSW Medicine & Health you are expected to familiarise yourself with the contents of this course outline and the UNSW Student Code and policies and procedures related to your studies.

Student Code of Conduct

Throughout your time studying at UNSW Medicine & Health, you share a responsibility with us for maintaining a safe, harmonious and tolerant University environment. This includes within the courses you undertake during your degree and your interactions with the UNSW community, both on campus and online.

The UNSW Student Code of Conduct website provides a framework for the standard of conduct expected of UNSW students with respect to both academic integrity and your responsibility as a UNSW citizen.

Where the University believes a student may have breached the code, the University may take disciplinary action in accordance with the Student Misconduct Procedure.

The Student Conduct and Integrity Office provides further resources to assist you to understand your conduct obligations as a student at UNSW.

Academic Honesty and Plagarism

Academic integrity

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to the principle of academic integrity, and ethical scholarship of learning is fundamental to your success at UNSW Medicine & Health.

Plagiarism, contract cheating, and inappropriate use of generative AI undermine academic integrity and are not tolerated at UNSW. For more information see the Academic Integrity and Plagiarism toolkit.

In addition to the information you are required to review in your ELISE training, UNSW Medicine & Health strongly recommends that you complete the Working with Academic Integrity module before submitting your first assessment task.

Referencing

Referencing is a way of acknowledging the sources of information that you use to research your assignments. Preferred referencing styles vary among UNSW Medicine & Health disciplines, so check your course Learning Management System (e.g. Moodle or Open Learning) page for information on preferred referencing styles.

For further information on referencing support and styles, see the Current Student Referencing page.

Academic misconduct and plagiarism

At UNSW, academic misconduct is managed in accordance with the Student Misconduct Procedure. Allegations of plagiarism are generally handled according to the UNSW Plagiarism Management Procedure. Plagiarism is defined in the UNSW Plagiarism Policy and is not tolerated at UNSW.

Use of Generative AI and other tools in your assessment

UNSW has provided guiding statements for the use of Generative AI in assessments. This will differ, depending on the individual assessment task, your course requirements, and the course stage within your program.

Your course convenor will outline if and how you can use Generative AI in each your assessment tasks. Options for the use of generative AI include: (1) no assistance; (2) simple editing assistance; (3) planning assistance; and (4) full assistance with attribution.

You may be required to submit the original generative AI responses, or drafts of your original work. Inappropriate use of generative AI is considered academic misconduct.

See your course Moodle (or Open Learning) page for the full instructions for individual assessment tasks for your course.

Submission of Assessment Tasks

Special Consideration

In cases where illness, misadventure or other circumstances beyond your control will prevent you from submitting your assessment by the due date and you require an extension, you need to formally apply for Special Consideration through myUNSW.

UNSW has a **Fit to Sit/Submit rule**, which means that by sitting or submitting an assessment on the scheduled assessment date, you are declaring that you are fit to do so and cannot later apply for Special Consideration.

Timed online assessment tasks

If you experience a technical or connection problem during a timed online assessment, such as a timed quiz, you can apply for Special Consideration. To be eligible to apply you need to contact the Course Convenor and advise them of the issue immediately. You will need to submit an application for Special Consideration immediately, and upload screenshots, error messages or other evidence of the technical issue as supporting documentation. Additional information can be found on: https://student.unsw.edu.au/special-consideration

Examinations

Information about the conduct of examinations in your course is provided on your course Moodle page.

Other assessment tasks

Late submission of assessment tasks

UNSW has standard late submission penalties as outlined in the UNSW Assessment Implementation Procedure, with no permitted variation. All late assignments (unless extension or exemption previously agreed) will be penalised by 5% of the maximum mark per calendar day (including Saturday, Sunday and public holidays).

Late submissions penalties are capped at five calendar days (120 hours). This means that a student is not permitted to submit an assessment more than 5 calendar days (120 hours) after the due date for that assessment (unless extension or exemption previously agreed).

Failure to complete an assessment task

You are expected to complete all assessment tasks for your courses. In some courses, there will be a minimum pass mark required on a specific assessment task (a “hurdle task”) due to the need to assure clinical competency.

Where a hurdle task is applicable, additional information is provided in the assessment information on your course Moodle page.

Feedback on assessments

Feedback on your performance in assessment tasks will be provided to you in a timely manner. For assessment tasks completed within the teaching period of a course, other than a final assessment, feedback will be provided within 10 working days of submission, under normal circumstances.

Feedback on continuous assessment tasks (e.g. laboratory and studio-based, workplace-based, weekly quizzes) will be provided prior to the midpoint of the course.

Any variation from the above information that is specific to an assessment task will be clearly indicated in the course and assessment information provided to you on your course Moodle (or Open Learning) page.

Faculty-specific Information

Additional support for students

The university offers a wide range of support services that are available for students. Here are some links for you to explore.

- The Current Students Gateway: https://student.unsw.edu.au
- Academic Skills and Support: https://student.unsw.edu.au/academic-skills
- Student support: https://www.student.unsw.edu.au/support
- Student Wellbeing, Health and Safety: https://student.unsw.edu.au/wellbeing

Mind Smart Guides are a series of mental health self-help resources designed to give you the psychological flexibility, resilience and self-management skills you need to thrive at university and at work.

- Mind Smart Guides: https://student.unsw.edu.au/mindsmart
- Equitable Learning Services: https://student.unsw.edu.au/els
- Guide to studying online: https://www.student.unsw.edu.au/online-study

Most courses in UNSW Medicine & Health use Moodle as your Learning Management System. Guidance for using UNSW Moodle can be found on the Current Student page. Difficulties with Moodle should be logged with the IT Service Centre.

- Moodle Support: https://student.unsw.edu.au/moodle-support

The IT Service Desk is your central point of contact for assistance and support with remote and on-campus study.

- UNSW IT Service Centre: https://www.myit.unsw.edu.au/services/students

Course evaluation and development

At UNSW Medicine & Health, students take an active role in designing their courses and their overall student experience. We regularly seek feedback from students, and continuous improvements are made based on your input. Towards the end of the term, you will be asked to

participate in the myExperience survey, which serves as a source of evaluative feedback from students. Your input to this quality enhancement process is valuable in helping us meet your learning needs and deliver an effective and enriching learning experience. Student responses are carefully considered, and the action taken to enhance educational quality is documented in the myFeedback Matters section of your Moodle (or Open Learning) course page.

School-specific Information

Additional Resources

Additional resources are available on the SPH website: https://sph.med.unsw.edu.au/current-students/student-resources

Subject guides

Use these guides as a quick and easy pathway to locating resources in your subject area. These excellent guides bring together the core web and print resources in one place and provide a one click portal into the online resources.

UNSW Library Subject Guides: http://subjectguides.library.unsw.edu.au/subjectguides

Public Health Subject Guide: http://subjectguides.library.unsw.edu.au/publichealth

Recording of lectures, tutorials and other teaching activities

Lectures, tutorials and other teaching activities *may* be recorded. Students should be advised that they are consenting to the recording by their enrolment in the course or participation in the activity. The purpose of audio and video recordings is to enhance the student experience by supporting engaged learning in an online teaching environment and ensure equitable access to all course resources for our students. If you have concerns about accessing course recordings, or being recorded, please contact the Course Convenor.

School Contact Information

School guidelines on contacting staff:

Course questions

All questions related to course content should be posted on Moodle or as directed by your

Course Convenor.

In cases where email communication with course convenors is necessary, we kindly request the following:

- Use your official email address for any correspondence with teaching staff.
- We expect a high standard of communication. All communication should avoid using short-hand or texting language.
- Include your full name, student ID, and your course code and name in all communication.

Our course convenors are expected to respond to emails during standard working hours of Monday to Friday, 9am-5pm.

Administrative questions

If you have an administrative question about your program of study at the School please submit your enquiry online at UNSW Ask Us.

Complaints and appeals

Student complaints and appeals: https://student.unsw.edu.au/complaints

If you have any grievances about your studies, we invite you to address these initially to the Course Convenor. If the response does not meet your expectations, you may then contact the School Grievance Officer, A/Prof Timothy Dobbins (t.dobbins@unsw.edu.au).