

PHAR3111

Clinical Pharmacology for Health and Exercise Science

Course Outline
Term 1, 2022

School of Medical Sciences
Faculty of Medicine & Health

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1. Staff

	Name	Email	Consultation times and locations	Contact Details
Course Convenor	Dr Trudie Binder	w.binder@unsw.edu.au	By appointment	90656711
Co-convenor	A/Prof Lu Liu	lu.liu@unsw.edu.au	By appointment	
Lecturer	Dr Angela Finch	a.finch@unsw.edu.au	By appointment	
Lecturer	A/Prof Jeff Holst	j.holst@unsw.edu.au	By appointment	
Lecturer	Martin Le Nedelec	m.lenedelec@unsw.edu.au	By appointment	
Lecturer	Prof Margaret Morris	m.morris@unsw.edu.au	By appointment	
Lecturer	Dr Mathew Perry	m.d.perry@unsw.edu.au	By appointment	
Lecturer	Dr Greg Smith	g.smith@unsw.edu.au	By appointment	
Lecturer	A/Prof Nicola Smith	nicola.smith@unse.edu.au	By appointment	
Lecturer	Prof Nigel Turner	n.turner@unsw.edu.au	By appointment	

Students wishing to see the course coordinator(s) or lecturers should make an appointment via email (with PHAR3111 in the subject heading). We will organize to meet you via teams at a convenient time.

2. Course information

Units of credit: 6UOC

Prerequisite: PHSL2101 or PHSL2121 or PHSL2501 or PHSL2201 or PHSL2221 or PHSL2502

This 6UOC consists of:

- 3 lectures per week– fully online
- Practical / tutorial sessions of up to 4 hours per week
- Other on-line activities up to 1 hour per week

2.1 Course summary

Clinical Pharmacology for Health and Exercise Science introduces students to the basic principles of pharmacology with an emphasis on the interaction of drugs and exercise. The course will provide students with an understanding of the principles of drug action (pharmacodynamics) in terms of drug chemistry, drug-receptor interaction, receptor signalling and dose-response relationships and how the body handles drugs. Students will gain an appreciation of the mechanisms by which drugs act utilizing clinical examples and the impact of treatment on acute and chronic responses to exercise in major health conditions.

2.2 Course aims

The main aim of this course is to gain:

- 1) an understanding of the principles of pharmacology
- 2) an appreciation of the mechanisms by which drugs act
- 3) an understanding of the interaction of drugs, disease and exercise

2.3 Course learning outcomes (CLO)

At the successful completion of this course you (the student) should be able to:

1. Explain how drugs/therapeutics work and are used safely
2. Explain the clinical application of a range of drug classes.
3. Critically analyse, interpret and effectively communicate pharmacological data and literature.

2.4 Relationship between course and program learning outcomes and assessments

Course Learning Outcome (CLO)	LO Statement	Related Tasks & Assessment
CLO 1	Explains how drugs/therapeutics work and are used safely	1, 2, 3, 4
CLO 2	Explains the clinical application of a range of drug classes.	1, 2, 3, 4
CLO 3	Critically analyse, interpret and effectively communicate pharmacological data and literature.	1, 2, 3, 4

3. Strategies and approaches to learning

3.1 Learning and teaching activities

The learning and teaching philosophy underpinning this course is centred on student learning and aims to create an environment which interests and challenges students. The teaching is designed to be engaging and relevant in order to prepare students for future careers in exercise physiology.

Lectures will provide you with the concepts and theory essential for an understanding of the course objectives. To assist in the development of research and analytical skills practical classes and tutorial classes will be held. These classes allow students to engage in a more interactive form of learning than is possible in the lectures. The skills you will learn in practical classes are relevant to your development as health practitioners.

3.2 Expectations of students

Students are reminded that UNSW recommends that a 6 units-of-credit course should involve about 150 hours of study and learning activities. The formal learning activities total approximately 50 hours throughout the term and students are expected (and strongly recommended) to do at least the same number of hours of additional study.

Although the primary source of information for this course is the lecture material, effective learning can be enhanced through self-directed use of other resources such as textbooks and online sources. Your practical classes will be directly related to the lectures and it is essential to prepare for practical classes before attendance. It is up to you to ensure you perform well in each part of the course; preparing for classes; completing assessments; studying for exams and seeking assistance to clarify your understanding.

Students are expected to attend all scheduled activities for their full duration.

Attendance at labs and tutorial classes will be recorded at the start of each class. Arrival more than 15 minutes after the start of the class may be recorded as non-attendance. Satisfactory completion of the work set for each class is essential and the class content will be assessable. If absent for medical reasons, a medical certificate must be provided and emailed to the convenor. Although lectures will be recorded student participation in live online lectures and questions and answer sessions is encouraged.

If you wish to contact the course convenors or staff email is the preferred option. Questions regarding course content should be submitted via the Moodle discussion forum. We are committed to providing the best experience and outcome for all students and will therefore endeavour to respond to e-mails and questions as soon as possible, but please consider the following:

- Standard work hours are Monday to Friday from 9 am to 6 pm. E-mail correspondence received outside of this time may be dealt with from the next working day.
- All digital correspondence, including e-mail, and messages on discussion forums should be respectful, courteous, and polite.
- All staff and students have busy schedules and multiple commitments, so while staff will endeavour to answer e-mail correspondence as quickly as possible, please apply appropriate expectations in this regard (i.e. 48 hours on a workday).

To help us improve the course, please consider providing us with feedback by acting as a student liaison, and/or by completing the MyExperience survey later in the term.

4. Course schedule and structure

Lectures: Averaging 3 topics per week, lectures in this course will be either “live” online (via Teams) at the scheduled time of 9am Monday or pre-recorded.

Tutorials: You should attend one tutorial per week on campus unless otherwise stated (see timetable) on Tuesday at either 3pm, 4pm or 5pm (depending on your group).

Laboratory practicals: Practical classes will be on campus unless otherwise stated (see timetable) on Monday 12-3 pm. The practicals are a core part of your learning experience.

Q & A sessions: A weekly online (teams question and answer session will be available at 12 noon on Thursdays to discuss material relevant to the lectures and course content.

Information regarding weekly activities will be available via the timetable on Moodle and in weekly announcements via Moodle.

[Refer to your timetable posted on the PHAR3111 Moodle site.](#)

Exam Period: 29 April – 12 May

Supplementary Exam Period: 23 May – 27 May

5. Assessment

5.1 Assessment tasks

Assessment task	Total Mark	Due date and time
1. Quizzes (3)- online multiple-choice and short answer questions (5% each)	15%	Weeks 3,5,9
2. Progress examination (1 hour duration)	15%	28/3/22 12 noon
3. Poster presentation	20%	11/4/22 12 noon
4. End of session examination (2 hours duration)	50%	Exam Period: 29 April – 12 May

Further information

UNSW grading system: <https://student.unsw.edu.au/grades>

UNSW assessment policy: <https://student.unsw.edu.au/assessment>

5.2 Assessment criteria and standards

Quizzes (15%)

This assessment will be in the format of MCQs or short answer questions. There will be three online quizzes which will cover material across the course, each worth 5%. Quizzes will be conducted online (each 15 min duration) and will take place at the end of weeks 3, 5 and 9.

The online quizzes are created to help you revise the materials learned in lectures, online activities, tutorials and practicals, and will also help you become familiar with the exam format, in preparation for the mid-term test and final exam. You will receive assessment results and feedback on Moodle once the task is finished.

Progress test (15%)

The mid-term test (progress examination) will be held during the practical time in week 7 (Monday the **28th of March 12 – 1pm**, including 10 min reading time). This exam will give you feedback on how you are succeeding in the course. The test will consist of multiple choice questions (MCQs) and short answer questions (SAQs) and will be based on the materials covered in the lectures, practical classes, and tutorials. The materials covered prior to the mid-term test may be again examined in the final exam.

Poster (20%)

Students will work in teams to research their topic for presentation as a scientific poster. The poster will be displayed during a **poster presentation and viewing session** on the **11th of April**. You will be expected to answer questions relating to the topic both individually and as a group. All members of the group will be required to participate in the presentation. The poster presentation will be graded on scientific content, visual communication and verbal presentation by two academic/research reviewers or staff. Poster titles (topics) will be made available during week 2. This assessment task will allow you to develop your research, information literacy, communication and time management skills, as well as allowing you to demonstrate your ability to work in a team and collaborate successfully. Information for the poster presentation (topic titles, marking criteria and marking rubric.) will be posted on Moodle. An information session on 'scientific communication: posters' will occur on week 1. and a poster feedback session for groups to ask questions and receive feedback on their poster drafts will occur during the practical class in week 5.

Final Exam (50%)

The final examination will be based on the material covered in the lectures, tutorials and practical classes. This is a 2 hour exam consisting of multiple choice and short answer questions. It will be scheduled during the examination period 29 April – 12 May

5.3 Submission of assessment tasks

Written assessment tasks must be submitted electronically via Moodle. A penalty will apply for late submissions.

Late Submission

Late submissions will be penalized at 5% per day capped at five days (120 hours). Students will not be permitted to submit their assessments after this date.

Special Consideration

If you experience a short-term event beyond your control (exceptional circumstances) that impacts your performance in a particular assessment task, you can apply for Special Considerations.

You must apply for Special Consideration **before** the start of your exam or due date for your assessment, except where your circumstances of illness or misadventure stop you from doing so.

If your circumstances stop you from applying before your exam or assessment due date, you must **apply within 3 working days** of the assessment, or the period covered by your supporting documentation.

More information can be found on the [Special Consideration website](#).

5.4. Feedback on assessment

Assessment 1: Quizzes. Individual marks are provided via Moodle once the exams have been graded. Cohort feedback is provided via the course Moodle page.

Assessment 2: Mid-term progress exam. Individual marks are provided via Moodle once the exams have been graded. Cohort feedback is provided via the course Moodle page.

Assessment 3: Poster presentation. A marking rubric will be used to evaluate this assignment, along with additional verbal feedback given to the students by the reviewers. Team members will also provide an assessment of each other's team work. This will be used to moderate each individual's grade. Grades will be made available via Moodle.

Assessment 4: Final examination. Cohort feedback is provided once the exams are completed in the form of a post in Moodle.

6. Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Referencing posters can be made using a numbered style such as Vancouver.

Further information about referencing styles can be located at <https://student.unsw.edu.au/referencing>

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage.¹ At UNSW, this means that your work must be your own, and others' ideas

¹ International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

- The Current Students site <https://student.unsw.edu.au/plagiarism>, and
- The ELISE training site <http://subjectguides.library.unsw.edu.au/elise/presenting>

The Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: <https://student.unsw.edu.au/conduct>.

7. Readings and resources

Resources will take the form of textbooks, journal articles or web-based resources. If available, links to the electronic form of these resources will be put on the course Moodle page.

Prescribed textbook:

- [Pharmacology for Health Professionals](#). 4th ed. Elsevier Health Sciences APAC

Recommended textbooks:

- Goodman and Gilman's The Pharmacological Basis of Therapeutics. 13th ed. McGraw-Hill Companies, ©2018. (The e-book is available through UNSW Library Resources database: Access Medicine):
<https://accessmedicine.mhmedical.com/book.aspx?bookID=2189>

8. Administrative matters

Student enquiries should be submitted via student portal <https://portal.insight.unsw.edu.au/web-forms/>

9. Additional support for students

- The Current Students Gateway: <https://student.unsw.edu.au/>
- Academic Skills and Support: <https://student.unsw.edu.au/academic-skills>
- Student Wellbeing and Health <https://www.student.unsw.edu.au/wellbeing>
- UNSW IT Service Centre: <https://www.myit.unsw.edu.au/services/students>
- UNSW Student Life Hub: <https://student.unsw.edu.au/hub#main-content>
- Student Support and Development: <https://student.unsw.edu.au/support>
- IT, eLearning and Apps: <https://student.unsw.edu.au/elearning>
- Student Support and Success Advisors: <https://student.unsw.edu.au/advisors>
- Equitable Learning Services (Formerly Disability Support Unit): <https://student.unsw.edu.au/els>
- Transitioning to Online Learning <https://www.covid19studyonline.unsw.edu.au/>
- Guide to Online Study <https://student.unsw.edu.au/online-study>