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**Faculty of Medicine & Health
School of Medical Sciences**

PHAR3111

CLINICAL PHARMACOLOGY for HEALTH and EXERCISE SCIENCE

COURSE OUTLINE

TERM 1, 2021

CRICOS Provider Code 00098G

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Please read this manual/outline in conjunction with the following pages on the [School of Medical Sciences website](#):

- [Advice for Students](#)
- [Learning Resources](#)

(or see "STUDENTS" tab at medicallsciences.med.unsw.edu.au)

PHAR3111 Course Information

UNITS OF CREDIT (UOC)

Clinical Pharmacology for Health and Exercise Science is a 3rd year Course with 6 Units of Credit (UOC).

PREREQUISITE COURSES

Any one of the following:

- PHSL2501 Human Physiology A (UG)
- PHSL2101 Physiology 1A (UG)
- PHSL2121 Principles of Physiology A (UG)
- PHSL2201 Physiology 1B (UG)
- PHSL2502 Human Physiology (UG)
- PHSL2221 Principles of Physiology (UG)

EXCLUDED COURSES

- PHAR2011 Introductory Pharmacology and Toxicology (UG)
- PHAR3251 Clinical and Experimental Pharmacology (UG)

OBJECTIVES OF THE COURSE

To gain an:

- understanding of the principles of pharmacology
- appreciation of the mechanisms by which drugs act in key health domains
- understanding of the interaction of drugs and exercise

COURSE CONVENORS and LECTURERS

Convenor

Dr Trudie Binder
w.binder@unsw.edu.au

Co-convenor

Dr Jane Carland
j.carland@unsw.edu.au

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

Lecturers in this course:

Dr Trudie Binder	w.binder@unsw.edu.au
Dr Jane Carland	j.carland@unsw.edu.au
Dr Angela Finch	a.finch@unsw.edu.au
A/Prof Jeff Holst	j.holst@unsw.edu.au
A/Prof Lu Liu	lu.liu@unsw.edu.au
Prof Margaret Morris	m.morris@unsw.edu.au
Dr Mathew Perry	m.d.perry@unsw.edu.au
Dr Greg Smith	g.smith@unsw.edu.au
Prof Nigel Turner	n.turner@unsw.edu.au

COURSE STRUCTURE and TEACHING STRATEGIES

The main delivery mode for PHAR3111 is via Blackboard Collaborate Ultra (BBCU). Lectures in this course will be either “live” via BBCU at the scheduled time (see timetable in Moodle) or new pre-recorded lectures for 2021. Tutorials and Practical classes will also be delivered via BBCU.

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

Refer to your timetable posted on the PHAR3111 Moodle site.

<https://moodle.telt.unsw.edu.au/mod/resource/view.php?id=3606702>

This 6 UOC consists of:

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

Please note that a 6 UOC course should involve about 150 hours of study and learning activities. The formal learning activities are approximately 60 hours throughout the term (lectures, tutorials and laboratory classes) and students are expected to do at least 90 additional hours outside of the formal activities (self-directed learning, exam and assignment preparation).

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.

APPROACH TO LEARNING AND TEACHING

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.

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 web-based 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 assignments; studying for exams and seeking assistance to clarify your understanding.

TEXTBOOKS AND OTHER RESOURCES

These 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>

STUDENT LEARNING OUTCOMES

PHAR3111 will develop those attributes that the Faculty of Medicine has identified as important for a Graduate to attain. These include; skills, qualities, understanding and attitudes that promote lifelong learning that students should acquire during their university experience.

UNSW GRADUATE CAPABILITIES:

- A. Scholars capable of independent and collaborative enquiry, rigorous in their analysis, critique and reflection, and able to innovate by applying their knowledge and skills to the solution of novel as well as routine problems.
- B. Entrepreneurial leaders capable of initiating and embracing innovation and change, as well as engaging and enabling others to contribute to change.
- C. Professionals capable of ethical, self- directed practice and independent lifelong learning.
- D. Global citizens who are culturally adept and capable of respecting diversity and acting in a socially just and responsible way.

COURSE LEARNING OUTCOMES:

1. Apply pharmacological approaches to problem solving, research, inquiry and analytical thinking.
2. Participate effectively in group work that will develop effective teamwork, collaborative and management skills.
3. Apply quantitative analysis to pharmacological data.
4. Organise information into a clear report that will improve information literacy – including the skills to locate, evaluate and use relevant information.
5. Gain basic pharmacological knowledge of the impact of drug treatment on acute and chronic responses to exercise.
6. Ethical, Social and professional understanding.

ASSESSMENT PROCEDURES

- | | |
|---|------------|
| • Online multiple-choice questions | 0% |
| • Progress examination (2 hours duration) | 35% |
| • Poster Presentation | 15% |
| • Laboratory reports (1500 words) | 15% |
| • End of session examination (2 hours duration) | 35% |

A penalty will apply for late submissions of assessment tasks (10% per day).

Formative online multiple-choice questions

The *online multiple-choice questions* (MCQs) is a formative assessment, which is created to help you revise the teaching contents and become familiar with the MCQ format. You will receive assessment results and feedback immediately once the task is finished questions will cover material during the first 4 weeks of the course.

The *online MCQs* will give you feedback on how you are succeeding in the course.

Examinations

The *progress examination* will be held in a practical class slot at **12 noon** on the **29th of March** (please refer to the course timetable on Moodle). This exam will give you feedback on how you are succeeding in the course. The format is 30 MCQs and 6 x 10 min written questions (from 8 questions).

The *end of session examination* will be held during the official examination period, and the format is 30 MCQs and 6 x 8 min written questions (from 8 questions).

Both the progress and end of session examinations will be based on the material covered in the lectures; however, material covered in the tutorials and practical classes can also be examined.

The progress and end of session examinations will give you feedback on how you are succeeding in the course.

Final Exam period for T1, 2021 is Friday, 30 April to Thursday 13 May

Supplementary exam period for T1, 2021 is Monday, 24 May to Friday 28 May

Poster Presentation

Students will work in teams of four to research their topic for presentation as a scientific poster. The poster will be displayed during a **poster presentation and viewing session** on the **19th 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 of session 1. 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 etc.) will be posted on Moodle. An information session on 'scientific communication: posters will occur on week 1.

Laboratory Report

The laboratory report will be written individually using class data from either the "effect of caffeine on glucose metabolism" or the "effects of β -adrenoceptor antagonists on exercise induced cardiovascular changes" practical classes. You will be instructed on which laboratory class you will need to write the report for submission in the 'practical report' class. This class will assist you in in developing report writing skills (please refer to the course timetable on Moodle).

A PDF version of the laboratory report must be submitted **via Moodle through Turnitin**, by **5pm on Tuesday 6th April**. There will be a "10% mark deduction per day penalty" for late submission unless the course convenor has approved special consideration. Information for

the laboratory report (structure, marking criteria etc.) will be posted on Moodle.

COURSE EVALUATION AND DEVELOPMENT

Each year feedback is sought from students about the course and continual improvements are made based on this feedback. You will be invited to provide confidential feedback using myExperience through the Moodle page. Student representatives will also be invited to participate in 1-2 student/staff meeting to discuss both positive and negative aspects of this course to enable us to continue improving this course.

GENERAL INFORMATION

The Department of Pharmacology is part of the School of Medical Sciences and is within the Faculty of Medicine. It is in the Wallace Wurth building, C27. General inquiries can be made online via the UNSW Student Portal Web Forms: <http://unsw.to/webforms>.

Prof Margaret Morris is Head of Department and appointments to meet with her may be made via email (m.morris@unsw.edu.au).

Honours programs. There are two honours programs run through the School. The SoMS Honours program is coordinated by A/Prof Cristan Herbert (c.herbert@unsw.edu.au) and Neuroscience Honours program is coordinated by Dr Natasha Kumar (natasha.kumar@unsw.edu.au). Any students considering an Honours year should discuss the requirements with the coordinators.

Postgraduate degrees

The Department of Pharmacology offers students the opportunity to enter the following graduate programs:

Research Masters: In Pharmacology. For more information contact the post-graduate convenor Assoc. Prof Pascal Carrive (p.carrive@unsw.edu.au) & Dr Nicole Jones (n.jones@unsw.edu.au).

Doctorate (Ph.D): In Pharmacology. For more information contact the post-graduate convenor Assoc. Prof Pascal Carrive (p.carrive@unsw.edu.au) & Dr Nicole Jones (n.jones@unsw.edu.au).

Enrolment and administrative help

If you have any problems with enrolment or scheduling please contact the SoMS Student Admin team online via the UNSW Student Portal Web Forms: <http://unsw.to/webforms>. Please indicate PHAR3111 as the subject heading.

Official Communication

All communications will be via your official UNSW email. Please see [Advice for Student-Official Communication](#) for more details.

Attendance Requirements

For details on the Policy on Class Attendance and Absence see [Advice for Students](#) and the [Policy on Class Attendance and Absence](#).

Guidelines on extra-curricular activities affecting attendance can be found on the School of Medical Sciences website under Special Consideration.

Attendance (online) 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 lodged with the convenor (by email) within 7 days of the time period of the certificate's expiry. Although lectures will be recorded student participation in live BBCU lectures is encouraged and these are important to attend.

Practical Classes

The practical class is an opportunity for students to develop graduate attribute C by behaving in an ethical, socially responsible and professional manner within the practical class.

All practical classes for PHAR3011 will run online via Blackboard Collaborate Ultra (BBCU)

For more details see [Advice for Students-Practical Classes](#)

Handwriting

Please see [Student Advice-handwriting.](#)

Special Consideration

Please see [UNSW-Special Consideration](#) and [Student Advice-Special Consideration](#)

If you unavoidably miss the progress exam in PHAR3111, you must lodge an application with UNSW Student Central for special consideration. If your request for consideration is granted an alternative assessment will be organised which may take the form of a supplementary exam or increased weighting of the final exam.

Student Support Services

Details of the available student support services can be found at [Student Advice-Student support services.](#)

Equitable Learning Services- <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>

UNSW Student Life Hub- [UNSW Student Life Hub Support and Resources | UNSW Current Students](#)

Appeal Procedures

Details can be found at [Student-Advice-Reviews and Appeals](#)

Academic Integrity and Plagiarism

The [UNSW Student Code](#) outlines the standard of conduct expected of students with respect to their academic integrity and plagiarism.

More details of what constitutes plagiarism can be found [here](#)
