

PHAR3111

CLINICAL PHARMACOLOGY for HEALTH and EXERCISE SCIENCE

COURSE OUTLINE

SEMESTER 1, 2018

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

COURSE CONVENORS and LECTURERS

Convenor

Dr Greg Smith
g.smith@unsw.edu.au
Room 326, Level 3, Wallace Wurth Building East
Ph: 9385 8075

Co-convenor

A/Prof Nigel Turner
n.tuner@unsw.edu.au
Room 324, Level 3, Wallace Wurth Building East

Students wishing to see the course coordinator should make an appointment *via* email (with PHAR3111 in the subject heading) as our offices are not readily accessible. We will organize to meet you at a convenient time and location.

Lecturers in this course:

Dr Trudie Binder	w.binder@unsw.edu.au
Dr Amanda Burdett	a.burdett@unsw.edu.au
Dr Ross Grant	ross.grant@sah.org.au
Dr Johnson Liu	johnson.liu@unsw.edu.au
Prof Margaret Morris	m.morris@unsw.edu.au

Dr Greg Smith
Assoc. Prof Nigel Turner
Assoc. Prof Larry Wakelin

g.smith@unsw.edu.au
n.turner@unsw.edu.au
l.wakelin@unsw.edu.au

COURSE STRUCTURE and TEACHING STRATEGIES

Learning activities occur on the following days and times:

Refer to your timetable posted on the PHAR3111 Moodle site.

Students are expected to attend all scheduled activities for their full duration (2-3 hours of lectures per week and up to 4 hours of practical and collaborative learning sessions in odd weeks). Please note that a 6 units-of-credit course should involve about 150 hours of study and learning activities. The formal learning activities are approximately 48 hours throughout the semester (lectures, tutorials and laboratory classes) and students are expected to do at least 102 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 text books, 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:

- Rang and Dale's Pharmacology. 8th ed. Churchill Livingstone/Elsevier

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.

Graduate Attributes

- A. Research, inquiry and analytical thinking abilities
- B. The capability and motivation for intellectual development
- C. Ethical, social and professional understanding
- D. Effective communication
- E. Teamwork, collaborative and management skills
- F. Information Literacy – the skills to locate, evaluate and use relevant information.

On completion of this course students should:

1. Participate effectively in group work
2. Apply quantitative analysis to pharmacological data
3. Organise pharmacological data into a clear research report
4. Gain basic knowledge of pharmacology
5. Understand how drugs work and interact with exercise in key health domains

ASSESSMENT PROCEDURES

• Online multiple-choice questions	0%
• Progress examination (2 hours duration)	35%
• Essay (1200 words)	15%
• Laboratory report (1500 words)	15%
• End of session examination (2 hours duration)	35%

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

Online multiple-choice questions

The *online multiple-choice questions* (MCQ) 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 MCQ's* will address graduate attributes A, B and F and give you feedback on how you are succeeding in the course.

Examinations

The *progress examination* will be held in the practical class slot (please refer to the course timetable on moodle for the date and time for this exam). This exam will give you feedback on how you are succeeding in the course. The format is 20 multiple choice questions and 8 x 10 min written questions (from 10 questions).

The end of session examination will be held during the official examination period, and the format is 20 multiple choice questions and 8 x 10 min written questions (from 10 questions).

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

The progress and end of session examinations will address graduate attributes A, B and F and give you feedback on how you are succeeding in the course.

Essay

The argumentative essay will be undertaken individually by researching a topic related to drugs used in key health domains and the interaction with exercise. You will choose one topic from a list to develop your argumentative essay. This assessment task will allow you to develop your research, information literacy, communication and time management skills (Graduate attributes A, D & F).

A PDF version of the essay must be submitted **via Moodle through Turnitin, before 10 am, Monday, 9th of April**. There will be a “10% mark deduction per day penalty” for late submission unless the course co-ordinator has approved special consideration. Information for the argumentative essay (topics, marking criteria etc.) will be posted on Moodle.

Laboratory Report

The laboratory report will be written individually using class data generated from either the “effect of caffeine on glucose metabolism” or the “effects of β -adrenoceptor antagonists on exercise induced cardiovascular changes” practical classes. At the end of the data analysis tutorial you will be instructed on which laboratory class you will need to write the report for submission. This assessment task will address graduate attributes A, B, C, D, E & F.

A PDF version of the laboratory report must be submitted **via Moodle through Turnitin, before 10 am, Wednesday, 30th of May**. There will be a “10% mark deduction per day penalty” for late submission unless the course co-ordinator 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 participant 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 through SOMSenquiries@unsw.edu.au.

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

Honours Program. Dr Greg Smith (g.smith@unsw.edu.au ph:9385 8075) coordinates the Honours program. Any students considering an Honours year should discuss the requirements with the coordinator.

Honours Administrator: Vicky Sawatt (v.sawatt@unsw.edu.au ph:9385 8195).

Postgraduate degrees

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

Course Work Masters: Masters of Pharmacological Medicine. For more information contact Dr Orin Chisholm (o.chisholm@unsw.edu.au).

Research Masters: In Pharmacology. For more information contact the post-graduate coordinators 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 coordinators 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 via email (below) and write PHAR3111 as the subject heading.

Email: SOMSenquiries@unsw.edu.au.

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 at practical classes is compulsory, and must be recorded in the class roll at the start of each class. Arrival more than 15 minutes after the start of the class will be recorded as non-attendance. It is your responsibility to ensure that the demonstrator records your attendance and no discussions will be entered into after the completion of the class. Satisfactory completion of the work set for each class is essential. It should be noted that non-attendance for other than documented medical or other serious reasons, or unsatisfactory performance, for more than 1 practical class during the session may result in

an additional practical assessment exam or ineligibility to pass the course. Students who miss practical classes due to illness or for other reasons must submit a copy of medical certificates or other documentation to the course coordinator.

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.

Students must take due care with biological and hazardous material and make sure all equipment is left clean and functional. In the interests of safety, special attention should be paid to any precautionary measures recommended in the notes. If any accidents or incidents occur, they should be reported immediately to the demonstrator in charge of the class who will record the incident and recommend what further action is required.

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](#).

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](#)
