

PHRM30002 Drugs Affecting the Nervous System

Credit Points:	12.50												
Level:	3 (Undergraduate)												
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.												
Time Commitment:	Contact Hours: 3 x one hour lectures per week (total contact hours: 36) Total Time Commitment: 120 hours												
Prerequisites:	<p>BSc students:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PHRM20001 Pharmacology: How Drugs Work</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>BBiomed students:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM20002 Integrated Human Structure and Function</td> <td>Semester 2</td> <td>25</td> </tr> </tbody> </table> <p>Students wishing to undertake this subject as breadth will need the approval of the subject co-ordinator.</p>	Subject	Study Period Commencement:	Credit Points:	PHRM20001 Pharmacology: How Drugs Work	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	BIOM20002 Integrated Human Structure and Function	Semester 2	25
Subject	Study Period Commencement:	Credit Points:											
PHRM20001 Pharmacology: How Drugs Work	Semester 2	12.50											
Subject	Study Period Commencement:	Credit Points:											
BIOM20002 Integrated Human Structure and Function	Semester 2	25											
Corequisites:	None												
Recommended Background Knowledge:	None												
Non Allowed Subjects:	This subject cannot be taken if credit has been previously obtained for 534-302 Neuropharmacology.												
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit: http://www.services.unimelb.edu.au/disability/												
Coordinator:	Assoc Prof James Ziogas, Dr Peter Crack												
Contact:	<p>Dr Peter Crack pcrack@unimelb.edu.au (mailto:pcrack@unimelb.edu.au) Assoc Prof James Ziogas jamesz@unimelb.edu.au (mailto:jamesz@unimelb.edu.au) Administrative Coordinator: Ms Hong Nguyen</p>												
Subject Overview:	The workings of the brain present one of the last true unknowns in modern medicine and yet it is the target for a multitude of interesting and important drugs. This subject will address the use of drugs in modulating the processes of neurochemical transmission and neuronal survival in the context of the management of mood and emotional disorders, addictive behaviours, neuro-degenerative diseases, pain and epilepsy. This subject will also discuss strategies for the development of future therapeutics and students will gain an appreciation of how a detailed understanding of pathological processes is important for the rational development of new therapeutics.												

Objectives:	<p>On successful completion of this unit, students will have developed a solid understanding of the pharmacology of central nervous system diseases and the knowledge of the actions of important drugs used clinically and in research into central nervous system disorders</p> <p>Students will also gain an appreciation of how a detailed understanding of pathological processes is important for the rational development of new therapeutics.</p>
Assessment:	Continuing assessment (20%)Mid semester assessment (20%)A 2 hour examination in the examination period (60%)
Prescribed Texts:	Nestler, Hymen & Malenka, Molecular Neuropharmacology McGraw Hill.
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>By the end of this unit students will:</p> <ul style="list-style-type: none"> # Be adept at learning in a range of ways. # Be able to examine critically, synthesise and evaluate knowledge pertaining to drugs. # Have an understanding of the scientific basis of the action of drugs in the central nervous system. # Be able to integrate key pharmacological and other medical research principles as they relate to neuropharmacology. # Be adept at critical thinking and problem solving. # Participate in collaborative learning.
Notes:	This subject is available to students enrolled in the BSc, Biomedicine degree.
Related Course(s):	Bachelor of Science Graduate Diploma in Biotechnology
Related Majors/Minors/Specialisations:	Biomedical Biotechnology Biotechnology Neuroscience Neuroscience Neuroscience Pharmacology Pharmacology Pharmacology