

Pharmacology

Year and Campus:	2010																											
Coordinator:	Dr Michael Julian Lew Department of Pharmacology																											
Contact:	michaell@unimelb.edu.au (mailto:michaell@unimelb.edu.au)																											
Overview:	Subjects in a pharmacology major introduce students to the unified study of the interaction between chemical agents and living matter. Pharmacology provides quantitative rigour and extends on a range of other biomedical disciplines. A pharmacology major will provide the springboard for students in entering careers in many areas of biomedical research and associated industries. Graduates will gain an in depth understanding of drug actions and a broad appreciation of the scientific process of knowledge acquisition and problem solving.																											
Objectives:	By the end of this major a student should have: <ul style="list-style-type: none"> # knowledge of the actions of important drugs used clinically and in research; # understood how the actions of new drugs are characterised and how drugs can be used to investigate questions of biological processes and signaling; # an understanding of the process of drug discovery and development; # used modern molecular approaches to solving pharmacological problems, and obtained an appreciation of their application to specific biological problems; # applied laboratory techniques and analytical approaches in different areas of pharmacology including the analysis and interpretation of data derived from experiments; # gained experience in the written and oral presentation of scientific data and developed an appreciation of the scientific literature. 																											
Structure & Available Subjects:	This major consists of: <ul style="list-style-type: none"> # 50 credit points at the third year level. 																											
Subject Options:	<p>Third Year:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PHRM30008 Drugs: From Discovery to Market</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>PHRM30009 Drugs in Biomedical Experiments</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>One subject from:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PHRM30003 Drug Treatment of Disease</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>PHRM30002 Drugs Affecting the Nervous System</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus one subject from:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PHRM30003 Drug Treatment of Disease</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>PHRM30002 Drugs Affecting the Nervous System</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <p>A third year subject in one of the following disciplines: Anatomy and Cell Biology; Biochemistry and Molecular Biology; Chemistry*; Microbiology and Immunology; Neuroscience; Pathology, Physiology or Zoology. *Please contact the Department of Pharmacology.</p>	Subject	Study Period Commencement:	Credit Points:	PHRM30008 Drugs: From Discovery to Market	Semester 1	12.50	PHRM30009 Drugs in Biomedical Experiments	Semester 1, Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	PHRM30003 Drug Treatment of Disease	Semester 2	12.50	PHRM30002 Drugs Affecting the Nervous System	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	PHRM30003 Drug Treatment of Disease	Semester 2	12.50	PHRM30002 Drugs Affecting the Nervous System	Semester 2	12.50
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Links to further information:	http://www.bbiomed.unimelb.edu.au/
Related Course(s):	Bachelor of Biomedicine