

# Pharmacology

<b>Year and Campus:</b>	2016																										
<b>Coordinator:</b>	Dr Michael Lew Department of Pharmacology & Therapeutics																										
<b>Contact:</b>	Email: <a href="mailto:michaell@unimelb.edu.au">michaell@unimelb.edu.au</a> (mailto:michaell@unimelb.edu.au)																										
<b>Overview:</b>	<p>Subjects in a pharmacology major introduce students to the unified study of the interaction between chemical agents and living matter. A pharmacology major will teach you how drugs work, and how drugs are used as therapies and as experimental tools for investigation of important problems in biology. Pharmacology extends and complements a range of other biomedical disciplines as well as medicinal chemistry. Graduates will gain an in depth understanding of drug actions and a broad appreciation of the scientific process of knowledge acquisition and problem solving. Thus, a pharmacology major will provide the springboard for students entering careers in many areas of biomedical research and associated industries and regulatory authorities.</p>																										
<b>Learning Outcomes:</b>	<p>By the end of this major a student should have:</p> <ul style="list-style-type: none"> <li># knowledge of the actions of important drugs used clinically and in research;</li> <li># an understanding of how the actions of new drugs are characterised and how drugs can be used to investigate questions of biological processes and signaling;</li> <li># an understanding of the process of drug discovery and development;</li> <li># used modern molecular approaches to solving pharmacological problems, and obtained an appreciation of their application to specific biological problems;</li> <li># applied laboratory techniques and analytical approaches in different areas of pharmacology including the analysis and interpretation of data derived from experiments;</li> <li># gained experience in the written and oral presentation of scientific data and developed an appreciation of the scientific literature.</li> </ul>																										
<b>Structure &amp; Available Subjects:</b>	Completion of 50 points of study at Level 3.																										
<b>Subject Options:</b>	<p>Both of</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>Plus at least one of</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 (if required to make up 50 points) electives selected from the following areas of study: Anatomy and Cell Biology, Biochemistry and Molecular Biology, Chemistry, Microbiology and Immunology, Neuroscience, Pathology, Physiology, Zoology or the following subject.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM30003 Biomedical Science Research Project</td> <td>Summer Term, Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>			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:	BIOM30003 Biomedical Science Research Project	Summer Term, Semester 1, Semester 2	12.50
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<b>Notes:</b>	A quota has been applied to a core subject in this major.
<b>Related Course(s):</b>	Bachelor of Biomedicine Bachelor of Science