

# Pharmacology

<b>Year and Campus:</b>	2014																										
<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>	This major is available to new generation Bachelor of Science students (B-SCI) and Bachelor of Biomedicine students. It is also available to Bachelor of Science students who commenced prior to 2008. The published structure of this major includes subjects available in the current year. Pre-2008 Bachelor of Science students who completed one or more Level 3 science subjects towards this major prior to 2010 should contact the Science Student Centre for advice on appropriate subjects to complete this major.
<b>Related Course(s):</b>	Bachelor of Arts and Bachelor of Science Bachelor of Biomedicine Bachelor of Commerce and Bachelor of Science Bachelor of Science