

Computing and Software Systems

Year and Campus:	2014																														
Coordinator:	Dr Timothy Miller																														
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Overview:	<p>This major will be offered from 2014.</p> <p>The Computing and Software Systems major will focus on providing students with considerable technical expertise in computer science and software engineering, including exposure to a variety of programming paradigms, an understanding of the systematic processes underpinning the software development lifecycle, and an appreciation of advanced topics in computing. Graduates from the Computing and Software Systems major who complete specified course plans will be eligible to receive ACS accreditation. This major will be a natural pathway to the Master of Engineering(Software) and the Master of Science (Computer Science). Graduates with a management orientation will also consider the Master of Information Systems (MIS).</p>																														
Learning Outcomes:	<p>The objectives of this major are to</p> <ul style="list-style-type: none"> # Give the students a solid background in the theory and practice of computer science and software engineering, through a range of topics available as core and elective subjects. # Prepare students to work in the IT industry if they wish to do so upon completing the major. # Provide the necessary prerequisite knowledge and skills for students who wish to continue with research pathways through an MSc (Computer Science) degree leading to a PhD. # Provide the necessary prerequisite knowledge and skills for students who wish to continue with professional pathways through an ME (Software) degree. 																														
Structure & Available Subjects:	Completion of 50 points of study at Level 3.																														
Subject Options:	<p>Students who intend to undertake this major in 2015 should ensure they have completed INFO20003 Database Systems, as this will be a prerequisite for COMP30022 IT Project.</p> <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>SWEN30006 Software Modelling and Design</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP30022 IT Project</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus 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>COMP30023 Computer Systems</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>COMP30024 Artificial Intelligence</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus 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>COMP30018 Knowledge Technologies</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP30019 Graphics and Interaction</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP30020 Declarative Programming</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	SWEN30006 Software Modelling and Design	Semester 1, Semester 2	12.50	COMP30022 IT Project	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	COMP30023 Computer Systems	Semester 1	12.50	COMP30024 Artificial Intelligence	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	COMP30018 Knowledge Technologies	Semester 1, Semester 2	12.50	COMP30019 Graphics and Interaction	Semester 2	12.50	COMP30020 Declarative Programming	Semester 2	12.50
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	COMP30025 Theory of Computation	Semester 2	12.50
	INFO30004 Usability Engineering	Semester 1	12.50
	INFO30005 Web Information Technologies	Semester 1	12.50
Related Course(s):	Bachelor of Science		