

## 615-245 Systems Analysis and Design

<b>Credit Points:</b>	12.50
<b>Level:</b>	2 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus. Lectures, workshops and practicals.
<b>Time Commitment:</b>	Contact Hours: 2 one-hour lectures per week; a 2-hour workshop and a 1-hour practical per week Total Time Commitment: 120 hours total time commitment
<b>Prerequisites:</b>	One of <ul style="list-style-type: none"> <li># 615-230 Database Concepts</li> <li># <i>Informatics 3: Content Management</i></li> </ul> Plus one of <ul style="list-style-type: none"> <li># 615-240 Concepts of Software Development II</li> <li># <i>Informatics 2: People, Data and the Web</i></li> </ul>
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	Students cannot gain credit for both this subject and 615-382.
<b>Core Participation Requirements:</b>	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. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Ms Rachelle Bosua
<b>Subject Overview:</b>	This subject introduces the fundamental processes of identifying requirements for specifying and designing information systems. Students will gain experience in the tools and techniques for all stages of the analysis and design cycle. Topics may include analysis techniques, data modeling, feasibility assessment, process modelling, automated support tools including computer aided software engineering (CASE), database design and specification, prototyping, and systems development methodologies.
<b>Objectives:</b>	At the completion of this subject, students should: <ul style="list-style-type: none"> <li># understand structured and object-oriented software development;</li> <li># be able to apply appropriate techniques to different stages of software life cycle;</li> <li># have hands-on experience with software development tools for systems analysis and design; and</li> <li># be able to participate in team projects involving analysis and design of medium-scale information systems.</li> </ul>
<b>Assessment:</b>	Group project work due during the semester (50%); a 3-hour written examination in the examination period (50%). Satisfactory completion of both project work and the examination is necessary to pass the subject.
<b>Prescribed Texts:</b>	None

<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2009/D09">https://handbook.unimelb.edu.au/view/2009/D09</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2009/F04">https://handbook.unimelb.edu.au/view/2009/F04</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2009/A04">https://handbook.unimelb.edu.au/view/2009/A04</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2009/M05">https://handbook.unimelb.edu.au/view/2009/M05</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>In addition to the subject-related skills, students should acquire or extend other valuable, generic skills. These include:</p> <ul style="list-style-type: none"> <li># analytical skills that help them structure complex systems into manageable pieces; and</li> <li># team management skills.</li> </ul>
<b>Notes:</b>	Students enrolled in the BSc (pre-2008 degree), BAsC or a combined BSc course (except for the BSc/ BIS) will receive science credit for the completion of this subject