

## 306-620 Systems Design & Development

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| <b>Credit Points:</b>                    | 12.500  |
| <b>Level:</b>                            | Graduate/Postgraduate   |
| <b>Dates &amp; Locations:</b>            | 2008,<br>This subject commences in the following study period/s:<br>Semester 1, - Taught on campus.   |
| <b>Time Commitment:</b>                  | Contact Hours: One 3-hour seminar per week (Semester 1). Total Time Commitment: Not available   |
| <b>Prerequisites:</b>                    | 306-490 Business Information Technology or equivalent; or acceptance into the Master of Applied Commerce (Business Analysis and Systems), together with the approval of the relevant Program Director.  |
| <b>Corequisites:</b>                     | None  |
| <b>Recommended Background Knowledge:</b> | None  |
| <b>Non Allowed Subjects:</b>             | None  |
| <b>Core Participation Requirements:</b>  | <p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt;         &lt;p&gt;It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p> |
| <b>Subject Overview:</b>                 | This subject introduces students to the techniques of business systems development, through an introduction to the discipline of systems analysis and design, from a traditional perspective. It is contrasted with the object-oriented approach. It focuses on preparing a business case; gathering information; investigating alternative solutions; determining the feasibility of solutions; logical and physical process, and data modelling; user interface design, structure charts and pseudo-code, implementation and change management issues.  |
| <b>Assessment:</b>                       | A 3-hour end-of-semester examination (50%), computer oriented assignments (40%) and class participation (10%).  |
| <b>Prescribed Texts:</b>                 | None  |
| <b>Recommended Texts:</b>                | To be advised.  |
| <b>Breadth Options:</b>                  | This subject is not available as a breadth subject.   |
| <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>On successful completion of this subject, students should be able to:</p> <ul style="list-style-type: none"> <li># identify and appreciate the various phases in the systems development life cycle;</li> <li># explain the role of a systems analyst whose task is to work within a framework that has resource constraints;</li> <li># prepare a business case, and understand how to initiate and plan a proposed system;</li> <li># gather information on functional and system requirements;</li> <li># represent the process view of a system;</li> <li># structure logic requirements of a system;</li> <li># document the data view of a system;</li> <li># produce a data design free of unwanted anomalies that make the design susceptible to errors and inefficiencies;</li> </ul>   |

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|                           | <ul style="list-style-type: none"> <li># explain the principles and guidelines for usable system inputs and outputs;</li> <li># describe the process of finalising design specifications;</li> <li># describe activities carried out during implementation and the process of maintaining information systems;</li> <li># describe alternative methodologies used in developing information systems and the considerations involved in choosing which methodology to use; and</li> <li># evaluate the quality of the delivered system.</li> </ul> <p>On successful completion of this subject, students should have improved the following generic skills:</p> <ul style="list-style-type: none"> <li># Oral and written communication;</li> <li># Collaborative learning and team work;</li> <li># Interpretation and analysis of cases; and</li> <li># Problem solving.</li> </ul> |
| <b>Related Course(s):</b> | <p>Master of Applied Commerce (Business Analysis and Systems)<br/> Master of Applied Commerce (Business Analysis and Systems)<br/> Master of Business and Information Technology<br/> Master of Business and Information Technology</p>  |