

# SWEN90014 Masters Software Engineering Project

| <b>Credit Points:</b>                           | 12.50   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
|---|---|----------------|----------------------------|----------------|---|------------------|-------|---------|----------------------------|----------------|--|------------------|-------|---------------------------------|------------------|-------|---|------------------|-------|
| <b>Level:</b>                                   | 9 (Graduate/Postgraduate)   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Dates &amp; Locations:</b>                   | This subject is not offered in 2013.  |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Time Commitment:</b>                         | Contact Hours: 3 hours per week. Total Time Commitment: 120 hours   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Prerequisites:</b>                           | <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>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p>One of the following may be taken concurrently.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ISYS90050 IT Project and Change Management</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>SWEN90003 IT Project Management</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>SWEN90008 Software Processes and Management</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table>   | Subject        | Study Period Commencement: | Credit Points: | SWEN30006 Software Modelling and Design         | Not offered 2013 | 12.50 | Subject | Study Period Commencement: | Credit Points: | ISYS90050 IT Project and Change Management | Not offered 2013 | 12.50 | SWEN90003 IT Project Management | Not offered 2013 | 12.50 | SWEN90008 Software Processes and Management | Not offered 2013 | 12.50 |
| Subject   | Study Period Commencement:  | Credit Points: |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| SWEN30006 Software Modelling and Design         | Not offered 2013  | 12.50          |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| Subject   | Study Period Commencement:  | Credit Points: |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| ISYS90050 IT Project and Change Management      | Not offered 2013  | 12.50          |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| SWEN90003 IT Project Management                 | Not offered 2013  | 12.50          |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| SWEN90008 Software Processes and Management     | Not offered 2013  | 12.50          |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Corequisites:</b>                            | None  |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Recommended Background Knowledge:</b>        | None  |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Non Allowed Subjects:</b>                    | <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>SWEN40001 Advanced Software Engineering Project</td> <td>Not offered 2013</td> <td>25</td> </tr> </tbody> </table>   | Subject        | Study Period Commencement: | Credit Points: | SWEN40001 Advanced Software Engineering Project | Not offered 2013 | 25    |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| Subject   | Study Period Commencement:  | Credit Points: |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| SWEN40001 Advanced Software Engineering Project | Not offered 2013  | 25             |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Core Participation Requirements:</b>         | <p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Overview, Objectives, Assessment and Generic Skills sections of this entry. 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 the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a></p> |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Contact:</b>                                 | Email: <a href="mailto:karus@unimelb.edu.au">karus@unimelb.edu.au</a> ( <a href="mailto:karus@unimelb.edu.au">mailto:karus@unimelb.edu.au</a> )   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Subject Overview:</b>                        | <p>This subject is about learning software engineering by doing it. Students will work in teams to conceive, analyse, design, implement and test a non-trivial software system for an external client. A key part of the project is for students to develop and manage a repeatable process in order to deliver a quality software product Workshops will explore the application of theory to your project and include selected topics drawn from: requirements analysis, design, implementation, testing and software project management relevant to the phase of the project that students are currently working on.</p>   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |
| <b>Objectives:</b>                              | <p>On completion of this subject students should be able to:</p> <ul style="list-style-type: none"> <li># Design and manage a repeatable process to achieve specific project goals</li> </ul>   |                |                            |                |   |                  |       |         |                            |                |  |                  |       |                                 |                  |       |   |                  |       |

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|---|---|
|   | <ul style="list-style-type: none"> <li># Apply software engineering principles and techniques to the development of a non-trivial software system Work with external stakeholders to develop software systems to meet stakeholder needs; and</li> <li># Integrate the knowledge gained in other subjects in the solution of a real world problem</li> </ul>   |
| <b>Assessment:</b>                            | Analysis and process-related documentation, 8000-10000 words, in week 12 (60%) Final release, 2000-3000 lines of code, in week 12 (30%) Individual report, not exceeding 2000 words, in week 12 (10%)   |
| <b>Prescribed Texts:</b>                      | None  |
| <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 completion of the subject the student should have the:</p> <ul style="list-style-type: none"> <li># Ability to apply knowledge of science and software engineering fundamentals</li> <li># Ability to undertake problem identification, formulation, and solution</li> <li># Ability to utilise a systems approach to complex problems</li> <li># Proficiency in software engineering design</li> <li># Ability to conduct an engineering project</li> <li># Ability to communicate effectively, with the engineering team and with the community at large</li> <li># Ability to manage information and documentation</li> <li># Capacity for creativity and innovation</li> <li># Understanding of professional and ethical responsibilities, and commitment to them</li> <li># Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member</li> <li># Capacity for lifelong learning and professional development</li> </ul> |
| <b>Related Majors/Minors/Specialisations:</b> | Master of Engineering (Software)  |