COMP355
Information Technology Project
S2 Evening 2016
Dept of Computing

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## General Information

<table>
<thead>
<tr>
<th>Unit convenor and teaching staff</th>
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<tbody>
<tr>
<td>co-Lecturer</td>
<td>Stephen Smith</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:stephen.smith@mq.edu.au">stephen.smith@mq.edu.au</a></td>
</tr>
<tr>
<td>Contact via</td>
<td><a href="mailto:stephen.smith@mq.edu.au">stephen.smith@mq.edu.au</a></td>
</tr>
<tr>
<td>30 minutes prior to lectures</td>
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<table>
<thead>
<tr>
<th>Convenor and co-Lecturer</th>
<th>Deborah Richards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="mailto:deborah.richards@mq.edu.au">deborah.richards@mq.edu.au</a></td>
</tr>
<tr>
<td>Contact via</td>
<td><a href="mailto:deborah.richards@mq.edu.au">deborah.richards@mq.edu.au</a></td>
</tr>
<tr>
<td>E6A 328</td>
<td>email for an appointment</td>
</tr>
</tbody>
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| Credit points                    | 3 |

| Prerequisites                    | 39cp including (COMP225 or COMP229) and (COMP255 or ISYS227) |

| Corequisites                     | 9cp from (COMP329 or COMP330 or COMP332 or COMP333 or COMP342 or COMP343 or COMP344 or COMP347 or COMP348 or COMP350 or ISYS326) |

| Co-badged status                |          |

| Unit description                | This unit draws together what has been learnt in previous units by conducting a group-based project spanning all phases of the software development life cycle and the techniques that can be applied in each of its stages. The unit assesses and extends students' understanding and application of methods for analysis; specification and design; testing and implementation; project management and quality assurance; team skills; and verbal and written communication skills. The unit involves a substantial group project drawn from the full breadth of IT applications. |

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at [http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/](http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/)
Learning Outcomes

1. Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
2. Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
3. Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
4. Effectively Communicate results of the software development process (in both written and oral form)
5. Recognise and address ethical issues when they arise based on an understanding of professional ethics

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
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<tbody>
<tr>
<td>Feasibility Study</td>
<td>8%</td>
<td>Monday 15/08/16 5pm</td>
</tr>
<tr>
<td>Project Plan and SRS</td>
<td>13%</td>
<td>Wednesday 31/08/16 5pm</td>
</tr>
<tr>
<td>Increment 1</td>
<td>13%</td>
<td>Monday 28/09/16 5pm</td>
</tr>
<tr>
<td>Increment 2</td>
<td>13%</td>
<td>Friday 28/10/16 5pm</td>
</tr>
<tr>
<td>Presentation/Demonstration</td>
<td>20%</td>
<td>Week 13</td>
</tr>
<tr>
<td>Delivery of Product to Sponsor</td>
<td>8%</td>
<td>By end of November</td>
</tr>
<tr>
<td>Final Examination</td>
<td>25%</td>
<td>Semester 2 exam period</td>
</tr>
<tr>
<td>Weekly Progress Reports</td>
<td>0%</td>
<td>Friday from Week 2</td>
</tr>
<tr>
<td>Individual Contribution Forms</td>
<td>0%</td>
<td>by Fri 16 Sept &amp; 11 Nov 5pm</td>
</tr>
</tbody>
</table>

Feasibility Study

Due: Monday 15/08/16 5pm
Weighting: 8%
Submit in paper form - E6A assignment boxes (level 1)
This Assessment Task relates to the following Learning Outcomes:

- Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
- Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
- Effectively Communicate results of the software development process (in both written and oral form)

**Project Plan and SRS**

Due: **Wednesday 31/08/16 5pm**  
Weighting: **13%**

Place printed copy in assignment box in E6A foyer. And submit electronic version via iLearn before due date.

This Assessment Task relates to the following Learning Outcomes:

- Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
- Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
- Effectively Communicate results of the software development process (in both written and oral form)

**Increment 1**

Due: **Monday 28/09/16 5pm**  
Weighting: **13%**

Increment 1: Updated Plan, Requirements, Design, Test Cases, Prototype

Submit in paper form - E6A assignment boxes (level 1) and via iLearn

This Assessment Task relates to the following Learning Outcomes:

- Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
• Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
• Effectively Communicate results of the software development process (in both written and oral form)

Increment 2
Due: Friday 28/10/16 5pm
Weighting: 13%
Increment 2: Updated Plan, Requirements, Design, Test Cases, Prototype
Submit in paper form - E6A assignment boxes (level 1) and via iLearn

This Assessment Task relates to the following Learning Outcomes:
• Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
• Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
• Effectively Communicate results of the software development process (in both written and oral form)

Presentation/Demonstration
Due: Week 13
Weighting: 20%
Presentation/Demonstration (8 - includes individual component), RTM, User Manual(4) and Final Report(8)

This Assessment Task relates to the following Learning Outcomes:
• Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
• Effectively Communicate results of the software development process (in both written and oral form)
• Recognise and address ethical issues when they arise based on an understanding of professional ethics
Delivery of Product to Sponsor
Due: **By end of November**
Weighting: **8%**
Delivery of Product to Sponsor (8) Individual mark provided by sponsor

This Assessment Task relates to the following Learning Outcomes:
- Effectively Communicate results of the software development process (in both written and oral form)
- Recognise and address ethical issues when they arise based on an understanding of professional ethics

Final Examination
Due: **Semester 2 exam period**
Weighting: **25%**

2 hour Final Examination

This Assessment Task relates to the following Learning Outcomes:
- Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
- Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project’s customer and the delivered system's end-user(s)
- Effectively Communicate results of the software development process (in both written and oral form)
- Recognise and address ethical issues when they arise based on an understanding of professional ethics

Weekly Progress Reports
Due: **Friday from Week 2**
Weighting: **0%**

Each team should submit a weekly report via iLearn. Structure and content is outlined in Deliverables Document on iLearn

This Assessment Task relates to the following Learning Outcomes:
- Effectively Communicate results of the software development process (in both written and oral form)
Individual Contribution Forms

Due: by Fri 16 Sept & 11 Nov 5pm
Weighting: 0%

Each individual should complete an "Individual contribution form" via iLearn

This Assessment Task relates to the following Learning Outcomes:

• Effectively Communicate results of the software development process (in both written and oral form)

Delivery and Resources

ISYS355/ISYS358/COMP355 projects will be sponsored by clients from industry.

CLASSES

Please ensure you attend the first lecture session on Thursday 4th August 2016 as you will be allocated into groups in that class. You are expected to attend at least all compulsory class meetings throughout the year and sit the final exam. In week 2 the Careers Development Office will run a "Working in Teams" workshop. Attendance is compulsory. If you have a valid reason not to attend a class (work is not a valid reason), you must get approval from the convenor before the class. In the event of illness or misadventure, contact the convenor ASAP.

REQUIRED AND RECOMMENDED TEXTS AND/OR MATERIALS

Lecture and Project Material

Some resources useful for your project can be found on iLearn under resources

Please read carefully the document at the Project Deliverables Definition link under Project Description and Deliverables on the unit iLearn website. Follow the instructions provided in that document for the group project work (worth 75% of the course mark).

UNIT WEBPAGE

Website

Please login to iLearn http://ilearn.mq.edu.au/

TECHNOLOGIES USED AND REQUIRED

The technology you use will depend on your client’s needs. You will have access to the third year computers and the software on them. You will not be able to add any other software to the machines in the labs. However, you may want to use resources that your sponsor and team members have access to. Your technology needs will be determined and defined by you in your project plan.
# Unit Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Groups allocated, project management introduction - compulsory</td>
</tr>
<tr>
<td>2</td>
<td>”Working in Teams“ workshop - location E7B T4 - compulsory</td>
</tr>
<tr>
<td>3</td>
<td>Lectures on project plans, requirements documents, UML, Design and testing</td>
</tr>
<tr>
<td>4</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>5</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>6</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>7</td>
<td>Guest Lecture on Agile Methods - compulsory</td>
</tr>
<tr>
<td>8</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>9</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>10</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>11</td>
<td>Exam preparation and ethics module</td>
</tr>
<tr>
<td>12</td>
<td>No classes/lectures</td>
</tr>
<tr>
<td>13</td>
<td>(date to be announced) Group presentation of system - compulsory</td>
</tr>
</tbody>
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# Learning and Teaching Activities

**Week 1 Team Allocation**
COMPULSORY - groups allocated, project management introduction

**Week 2 ”Working in Teams“ workshop**
COMPULSORY - location E7B T4

**Week 3 Lectures/Revision**
on project plans, requirements documents, UML, Design and testing

**Week 7 Guest Lecture**
COMPULSORY - Guest Lecture on Agile Methods
Week 11 Exam preparation
Exam preparation and ethics module (examinable)

Week 13
COMPULSORY - Group presentation of system (date to be announced in second half of semester)

Learning and Teaching Tips
To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.

Learning and Teaching Strategies
COMP/ISYS355/358 is taught through the involvement in a group project. Much of what is learnt is gained through experience and problem solving at the individual and group level. The unit will require the student to apply knowledge and skills gained in previous units and also require the student to acquire new knowledge and skills which will vary for each student and project according to the problem needing to be solved. The content of the unit includes: Self-study of previous learning material and resources found online and at your organisation. Identification of knowledge and skill gaps and how to address these training needs via self-study. Preparation of a detailed project proposal and plan. Undertaking an extended group project. Preparation of intermediate and final project deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final reflective report. A group project presentation.

Policies and Procedures
Macquarie University policies and procedures are accessible from Policy Central. Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy http://mq.edu.au/policy/docs/academic_honesty/policy.html


In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

**Results**

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit [ask.mq.edu.au](http://ask.mq.edu.au).

Special consideration policy of the Department of Computing:


**Plagiarism**

Please refer to the Department of Computing [Plagiarism Policy](http://comp.mq.edu.au/undergrad/policies/special_consideration_policy.htm) for the definition of plagiarism, advice on avoiding it and the penalties in place if you are found to have submitted plagiarised work.

**Student Support**

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

**Learning Skills**

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

**Student Enquiry Service**

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

**Equity Support**

Students with a disability are encouraged to contact the [Disability Service](http://www.mq.edu.au/Services/StudentSupport/Disability/) who can provide appropriate help with any issues that arise during their studies.
IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

• Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering
• Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context
• Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)

Assessment tasks

• Feasibility Study
• Project Plan and SRS
• Increment 1
• Increment 2
• Presentation/Demonstration
• Final Examination

Learning and teaching activities

• on project plans, requirements documents, UML, Design and testing
• To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.
• COMP/ISYS355/358 is taught through the involvement in a group project. Much of what is learnt is gained through experience and problem solving at the individual and group level. The unit will require the student to apply knowledge and skills gained in previous units and also require the student to acquire new knowledge and skills which will vary for each student and project according to the problem needing to be solved. The content of the unit includes: Self-study of previous learning material and resources found online and at your organisation. Identification of knowledge and skill gaps and how to address these training needs via self-study. Preparation of a detailed project proposal and plan. Undertaking an extended group project. Preparation of intermediate and final project deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final reflective report. A group project presentation.

Problem Solving and Research Capability
Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcome
• Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context

Assessment tasks
• Feasibility Study
• Project Plan and SRS
• Increment 1
• Increment 2
Learning and teaching activities

• on project plans, requirements documents, UML, Design and testing
• Exam preparation and ethics module (examinable)
• To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.
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Undertaking an extended group project. Preparation of intermediate and final project deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final reflective report. A group project presentation.

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcome

• Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context

Assessment tasks

• Feasibility Study
• Project Plan and SRS
• Increment 1
Learning and teaching activities

- COMPULSORY - groups allocated, project management introduction
- COMPULSORY - location E7B T4
- on project plans, requirements documents, UML, Design and testing
- COMPULSORY - Guest Lecture on Agile Methods
- To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.
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Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcomes

- Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
• Effectively Communicate results of the software development process (in both written and oral form)

**Assessment tasks**

• Feasibility Study
• Project Plan and SRS
• Increment 1
• Increment 2
• Presentation/Demonstration
• Delivery of Product to Sponsor
• Final Examination
• Weekly Progress Reports
• Individual Contribution Forms

**Learning and teaching activities**

• COMPULSORY - groups allocated, project management introduction
• COMPULSORY - location E7B T4
• on project plans, requirements documents, UML, Design and testing
• COMPULSORY - Group presentation of system (date to be announced in second half of semester)

To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.

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deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final reflective report. A group project presentation.

Engaged and Ethical Local and Global citizens
As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcomes

• Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
• Recognise and address ethical issues when they arise based on an understanding of professional ethics

Assessment tasks

• Project Plan and SRS
• Presentation/Demonstration
• Delivery of Product to Sponsor
• Final Examination

Learning and teaching activities

• on project plans, requirements documents, UML, Design and testing
• To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.
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at your organisation. Identification of knowledge and skill gaps and how to address these
training needs via self-study. Preparation of a detailed project proposal and plan.
Undertaking an extended group project. Preparation of intermediate and final project
deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final
reflective report. A group project presentation.

Socially and Environmentally Active and Responsible
We want our graduates to be aware of and have respect for self and others; to be able to work
with others as a leader and a team player; to have a sense of connectedness with others and
country; and to have a sense of mutual obligation. Our graduates should be informed and active
participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcome
• Recognise and address ethical issues when they arise based on an understanding of
  professional ethics

Assessment tasks
• Presentation/Demonstration
• Delivery of Product to Sponsor
• Final Examination

Learning and teaching activities
• Exam preparation and ethics module (examinable)
• To be successful you should: Meet with your group regularly, ideally weekly. Make sure
  you take notes, set agendas and action items and at the start of each meeting check the
  status of all action items. Attend the compulsory class sessions. Read appropriate
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Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcomes

- Understand and make use of the basic principles of project management, teamwork, the roles and responsibilities of the project manager and appreciate the importance of working closely with the project's customer and the delivered system's end-user(s)
- Recognise and address ethical issues when they arise based on an understanding of professional ethics

Assessment tasks

- Project Plan and SRS
- Presentation/Demonstration
- Delivery of Product to Sponsor
- Final Examination

Learning and teaching activities

- Exam preparation and ethics module (examinable)
- To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate material to support the technical and management aspects of your project. Perform the tasks assigned to you. Undertake self-study to acquire missing knowledge and skills needed for your particular project. Continually review and revise your project plan and ensure you are working to meet delivery of milestones by the specified time.
• COMP/ISYS355/358 is taught through the involvement in a group project. Much of what is learnt is gained through experience and problem solving at the individual and group level. The unit will require the student to apply knowledge and skills gained in previous units and also require the student to acquire new knowledge and skills which will vary for each student and project according to the problem needing to be solved. The content of the unit includes: Self-study of previous learning material and resources found online and at your organisation. Identification of knowledge and skill gaps and how to address these training needs via self-study. Preparation of a detailed project proposal and plan. Undertaking an extended group project. Preparation of intermediate and final project deliverables. Acceptance of project deliverable(s) by customer. Preparation of a final reflective report. A group project presentation.

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcome

• Critically analyse, describe and apply principles and models of software development and how they fit within the larger context of systems engineering

Assessment tasks

• Feasibility Study
• Increment 1
• Increment 2
• Final Examination

Learning and teaching activities

• on project plans, requirements documents, UML, Design and testing
• Exam preparation and ethics module (examinable)
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Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

**Learning outcome**

- Understand and perform the stages of the software development life-cycle (requirements analysis, design, construction, testing) and its different process models in an authentic context

**Assessment tasks**

- Feasibility Study
- Project Plan and SRS
- Increment 1
- Increment 2

**Learning and teaching activities**

- Exam preparation and ethics module (examinable)
- To be successful you should: Meet with your group regularly, ideally weekly. Make sure you take notes, set agendas and action items and at the start of each meeting check the status of all action items. Attend the compulsory class sessions. Read appropriate
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**Grading and Passing**

Your final grade will depend on your performance in the project and exam. The final mark for the unit will be calculated by combining the marks for all assessment tasks according to the percentage weightings shown in the assessment summary. Note that in order to receive the full marks awarded to your group you must contribute your equal share to the project. Individual contribution forms will be used to identify the contribution of each team member. Every individual in the team will complete this online form. These forms and the process will be explained further in the week 1 induction.

You are expected to attend all compulsory class sessions or provide a reason (to the unit convenor preferably before the class) why you were unable to attend.

All work submitted should be readable and presented in a business-like and professional format.

Late work will not be accepted. As you are working in a team and also are expected to perform risk management, sickness or other misadventure needs to be planned for and managed. Disruption requests will apply to individuals only, not to groups.

If a Supplementary Examination is granted as a result of the Special Consideration process the examination will be scheduled after the conclusion of the official examination period. For details of the Special Consideration policy specific to the Department of Computing, see the Department’s policy page.

**Grade Assessment Standards**
<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>P</td>
<td>Has participated in group-based projects which delivered satisfactory outputs throughout the semester and has demonstrated this participation in the final examination.</td>
</tr>
<tr>
<td>CR</td>
<td>Has participated in group-based projects throughout the semester which delivered quality outputs and demonstrated in the exam a high degree of contribution to those outputs and good grasp of the concepts relating to working in groups, managing projects and the development of software.</td>
</tr>
<tr>
<td>D</td>
<td>Has participated in group-based projects throughout the semester which consistently delivered high quality outputs and demonstrated in the exam a high degree of contribution to those outputs and strong grasp of the concepts relating to working in groups, managing projects and the development of software. All the assignment, practical and tutorial tasks (programming and written) completed to a very high standard. Excellent performance in the written examination.</td>
</tr>
<tr>
<td>HD</td>
<td>Has participated in group-based projects throughout the semester which consistently delivered high quality outputs and demonstrated in the exam a high degree of contribution to those outputs and strong grasp of the concepts relating to working in groups, managing projects and the development of software. Students achieving this grade are often distinguished by a high level of effort, enthusiasm, competence and often leadership in their project groups as well as by excellent performance in the written examination.</td>
</tr>
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