COMP6770
Management of IT Systems and Projects
Session 1, Weekday attendance, North Ryde 2020

Department of Computing

Coronavirus (COVID-19) Update
Due to the Coronavirus (COVID-18) pandemic, any references to assessment tasks and on-campus delivery may no longer be up-to-date on this page.
Students should consult iLearn for revised unit information.

Find out more about the Coronavirus (COVID-19) and potential impacts staff and students

Contents

General Information 2
Learning Outcomes 3
Assessment Tasks 3
Delivery and Resources 4
Unit Schedule 5
Policies and Procedures 6
Changes from Previous Offering 8
Standards 8

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## General Information

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**Credit points**
10

**Prerequisites**

**Corequisites**

**Co-badged status**
COMP3770
Unit description
This unit aims to provide an understanding of how information technology systems and projects can be efficiently managed. This unit includes detailed study of techniques for planning, tracking and measuring software projects. Issues covered include: quality evaluation; estimation measurement techniques; and project risk planning and management. The unit provides a sound grounding in how projects can be managed in regards to quality assurance and risk assessment. The unit also covers issues in the management of IT systems, including: change management; configuration management and planning; people management; hardware asset management; and capacity planning and availability.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates

Learning Outcomes
On successful completion of this unit, you will be able to:

ULO1: Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.

ULO2: Analyse, describe and summarise appropriate techniques relating to: change management; configuration management and planning; human resource management; hardware asset management and capacity planning and availability.

ULO3: Demonstrate an appreciation of the role of the CIO in analysing the information technology strategic direction of a firm, with the aim of recommending investment appropriate to the business context.

ULO4: Demonstrate confidence in leadership skills; communication skills; critical analysis skills; problem-solving skills and creative thinking skills.

Assessment Tasks

Coronavirus (COVID-19) Update
Assessment details are no longer provided here as a result of changes due to the Coronavirus (COVID-19) pandemic.

Students should consult iLearn for revised unit information.

Find out more about the Coronavirus (COVID-19) and potential impacts staff and students
Delivery and Resources

Coronavirus (COVID-19) Update
Any references to on-campus delivery below may no longer be relevant due to COVID-19.
Please check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

Classes
Each week you should attend two hours of lectures (Thursday 11-1pm), the tutorial-lecture (Friday 12-1pm) and the practicals (from week 2). For details of days, times and rooms consult the timetables webpage.

Note that practicals commence in week 2.

Resources to assist your learning
Digital recordings of lectures are available as Echo360 through iLearn login.

Textbook
The textbook for COMP3770/6770 used this semester is:

  Thomson Course Technology Boston Mass. U.S.A

Numerous recent references have been used to compile the management series of lectures and workshops from Weeks 8 to 11. Students will be provided with online references and reference will be made to additional textbooks available in the library.

Technology used
Use will be made of MS Project, Google Code, JIRA, TRAC and GitHub. Students are also expected to make use of MS Word and MS Powerpoint.

The textbooks typically offer a trial version of Project as well.

Submission methods for assessment tasks:
Only soft copy assignment submissions are required and submitted. Marks returned will be done through the COMP3770/6770 page on iLearn.

Late submission:
Late submission of individual work will incur a 10% penalty for every 24 hours, or part thereof, it is late. So within 24 hours, the maximum mark that can be obtained is 90% of the full grade for that assessment task; between 24 and 48 hours, the maximum mark that can be obtained is 80% of the full grade; and so on. No extra documentation is required unless the student wishes to have an extension (see below) applied.

Late submissions of group based assignments are not permitted unless under exceptional
circumstances with documentary evidence provided to the unit convenor which may include medical certificates as per the Department of Computing policy. One person being sick does not mean the group cannot submit work. Students are recommended to have a backup plan for group based submissions.

**Extensions**

The current process is for the student or group to contact student services and apply for a disruption. Medical causes will require a Macquarie University Professional Authority Form. Once a disruption has been approved, the convenor can grant special consideration which is usually an appropriate extension.

**Exam:**

The final exam will focus on content covered in the classes throughout the semester. Please see the assessments section for details on the final exam. The final examination in this unit is a hurdle requirement. You must get a mark of at least 40% in the examination to pass the unit. If you get a mark of 30-39% in your first attempt at the final examination you will be given a second and final attempt. If you are given a second opportunity to sit the final examination as a result of failing to meet the minimum mark required, you will be offered that chance during the same supplementary examination period and will be notified of the exact day and time after the publication of final results for the unit.

**Unit Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Lecture References</th>
<th>Practicals</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Peter</td>
<td>Unit outline</td>
<td>Unit guide</td>
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<td>Assign 1 released – PM report</td>
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<td></td>
<td>Introduction to PM</td>
<td>Schwalbe Chap 1</td>
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<td></td>
<td>The IT context</td>
<td>Schwalbe Chap 2</td>
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<tr>
<td>2 - Peter</td>
<td>Scope management</td>
<td>Schwalbe Chap 5</td>
<td>MS Project, Part 1</td>
<td>Assign 2 released: Project planning - due 6/4/20</td>
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<td>Time/schedule management</td>
<td>Schwalbe Chap 6</td>
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<tr>
<td>3 - Peter</td>
<td>Cost management</td>
<td>Schwalbe Chap 7</td>
<td>MS Project, Part 2</td>
<td>Assign 1 due 16/3/20</td>
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<td>Quality management</td>
<td>Schwalbe Chap 8</td>
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<tr>
<td>4 - Peter</td>
<td>Project Management process</td>
<td>Schwalbe Chap 3</td>
<td>Google Code</td>
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</tbody>
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Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central ([https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central)). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy *(Note: The Special Consideration Policy is effective from 4...*
Students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/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/study/getting-started/student-conduct

**Results**

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) 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 or if you are a Global MBA student contact globalmba.support@mq.edu.au

**Student Support**

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

**Learning Skills**

Learning Skills (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

If you are a Global MBA student contact globalmba.support@mq.edu.au

**Equity Support**

Students with a disability are encouraged to contact the Disability Service 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/
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.

**Changes from Previous Offering**

The two units COMP3770 (replacing ISYS302) and COMP6770 (replacing ITEC602) are now completely identical - all assessment and due dates are the same.

**Standards**

Four standards, namely HD, D, CR, P summarize as many different levels of achievement. Each standard is precisely defined to help students know what kind of performance is expected to deserve a certain mark. The standards corresponding to the learning outcomes of this unit are given below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>LO 1</th>
<th>LO 2</th>
<th>LO 3</th>
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<tbody>
<tr>
<td>HD</td>
<td>Apply techniques and knowledge in new contexts, show breadth and depth of understanding of quality evaluation, estimation measurement, project risk planning and measurement. Can use MS Project and Sharepoint to solve problems with high accuracy.</td>
<td>A sound grounding in how projects can be managed in regards to quality assurance and risk assessment. Show breadth and depth of understandings on issues in the management of IT systems, including: change management, configuration management and plannig, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in new contexts.</td>
<td>Demonstrate leadership, creativity, critical thinking and analysis skills. Enthusiastic in acquiring new knowledge in the IS project management area. Demonstrate capability in applying new IS project management knowledge to solve real-world problems. Conduct team work effectively and play a key role in moving the whole project team forward.</td>
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<tr>
<td>D</td>
<td>Apply techniques and knowledge in some new contexts, show breadth and depth of understanding across most of the topics including: quality evaluation, estimation measurement, project risk planning and measurement. Can use MS Project to solve problems, with limited errors.</td>
<td>A sound grounding in most topics related to how projects can be managed in regards to quality assurance and risk assessment. Show breadth and depth of understandings on most issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in some new contexts.</td>
<td>Demonstrate some leadership occasionally. Show creativity, critical thinking and analysis skills. Have the capability in applying IS project management knowledge to solve real-world problems. Collaborate with team members well and finish assigned tasks on time and with good quality.</td>
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<tr>
<td>CR</td>
<td>Show breadth of understanding across most of the topics including: quality evaluation, estimation measurement, project risk planning and measurement. Have fundamental knowledge about how to use MS Project, but with some non-major errors.</td>
<td>Understands some aspects of how projects can be managed in regards to quality assurance and risk assessment. Show breadth of understandings on most issues in the management of IT systems, including: change management, configuration management and plannig, People management, hardware asset management and capacity planning and availability.</td>
<td>Demonstrate analysis skills in some occasions. Know how to apply IS project management knowledge to solve some of the real-world problems. Able to finish assigned tasks on time and with good quality most of the time.</td>
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<td>Grade</td>
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<td>Fail (F)</td>
<td>does not provide evidence of attainment of all learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.</td>
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<td>Pass (P)</td>
<td>provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.</td>
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<tr>
<td>Credit (Cr)</td>
<td>provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.</td>
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<td>Distinction (D)</td>
<td>provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.</td>
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<tr>
<td>High Distinction (HD)</td>
<td>provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.</td>
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</tbody>
</table>

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the examination to pass the unit. If you get a mark of at least 30% in your first attempt at the final examination you will be given a second and final attempt. If you are given a second opportunity to sit the final examination as a result of failing to meet the minimum mark required, you will be offered that chance during the same supplementary examination period and will be notified of the exact day and time after the publication of final results for the unit.

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.