



COMP2750

Applications Modelling and Development

Session 1, Weekday attendance, North Ryde 2020

Department of Computing

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General Information

Unit convenor and teaching staff

Convenor and Lecturer

Charanya Ramakrishnan

charanya.ramakrishnan@mq.edu.au

Contact via Email

4 Research Park Drive, Becton Dickson Building Rm 375

See HELP101 schedule/by appointment

Lecturer

Yan Wang

yan.wang@mq.edu.au

Contact via Email

4 Research Park Drive, Becton Dickson Building Rm 354

See HELP101 schedule/by appointment

Tutor

Darius Taslim

darius.taslim@mq.edu.au

Contact via Email

See HELP101 schedule/by appointment

Tutor

Hedieh Ranjbartabar

hedieh.ranjbartabar@mq.edu.au

Contact via Email

See HELP101 schedule/by appointment

Tutor

Mahdieh Rezaeian

mahdieh.rezaeian@mq.edu.au

Contact via Email

See HELP101 schedule/by appointment

Tutor

Zawar Hussain

zawar.hussain@mq.edu.au

Contact via Email

See HELP101 schedule/by appointment

Credit points

10

Prerequisites

COMP1350 or ISYS114

Corequisites

Co-badged status

COMP6750

Unit description

This unit is an intermediate unit to deliver a solid foundation in concepts, methods, tools and techniques that organisations use to control the information they use in their day-to-day business, with a particular focus on how computer-based technologies can most effectively contribute to the way business is structured. The unit focuses on the fundamental concepts and models of applications development so that they can understand the key processes related to building functioning applications and appreciate the complexity of applications development. The unit emphasises program development and incorporates the software development life cycle, requirements gathering, designing a solution, and implementing and testing a solution in a programming language.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

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

ULO1: Demonstrate ability to communicate software requirements and designs, clearly and effectively.

ULO2: Practice the key phases of the software development life cycle (SDLC) including requirements engineering, analysis, design, basic development and testing.

ULO3: Demonstrate understanding of alternative SDLC lifecycle models

ULO4: Demonstrate an understanding of the concepts and tools needed to successfully design and build an application

ULO5: Integrate an application with a database or other form of persistent storage

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 on staff and students](#)

General Assessment Information

If you receive [special consideration](#) for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the [policy](#) prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn (bit.ly/FSESupp) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

Late Submission

No extensions will be granted without an approved application for Special Consideration. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late. For example, 25 hours late in submission for an assignment worth 10 marks – 20% penalty or 2 marks deducted from the total. No submission will be accepted after solutions have been posted.

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

ISYS254 is taught via lectures and workshops.

Lectures:

- Lectures are used to introduce new material, provide motivation and context for your study, guide you in what is important to learn and explain more difficult concepts.
- There are 2 hours of lectures per week.

Workshops:

- **Note:** Workshops commence in Week-2
- Workshops are small group classes which allow you to interact with your peers and with

a tutor who has a sound knowledge of the subject. This also gives you a chance to practice your technology skills.

- You will need to enrol and attend the workshop to obtain marks for your attendance and participation.
- Workshops will be providing you with practical experience of design and development processes. The content of the workshop may overlap or sometimes be ahead of the lecture content.
- If your workshop falls on a public holiday, you are expected to attend & participate in another workshop as a makeup class to obtain your participation marks for that week.
- For details of days, times and rooms consult the [timetables webpage](#).

RECOMMENDED TEXTS AND/OR MATERIALS

Textbook

There are no required textbooks for this unit. However, every week you will be provided with lecture notes and references for further reading

UNIT WEBPAGE AND TECHNOLOGY USED AND REQUIRED

Websites

The web page for this unit can be found at: [here](#)

iLecture

Digital recordings of lectures are available. Read instructions [here](#).

Discussion Boards

The unit makes use of discussion boards hosted within [ilearn](#). Please post questions of general interest there (for example, about assessment tasks), they are monitored by the unit staff but students may also provide answers.

FEEDBACK

You have many opportunities to seek and to receive feedback. The feedback that you receive also plays an important role in your learning. Make sure you read the feedback you are given, attend lectures which provide assignment feedback and compare your solution with sample solutions provided. During lectures, you are encouraged to ask the lecturer questions to clarify anything you might not be sure of. You may also arrange to meet with your tutor or the lecturer. Consultation hours will be provided in some of the weeks. Each week, you will be given activities and problems to solve in the workshops. This will at times involve contributing to a group of students and presenting solutions to the class. The solutions provided will help you to understand the material in the unit, prepare you for the work in assignments as well as for the final exam. You must keep up with these problems every week. Assignments have been specially designed to deliver continuous feedback on your work.

Each week you should:

- Attend lectures, take notes, ask questions
- Attend your tutorial/practical and seek feedback from your tutor on your work
- Read assigned reading material (ideally before the lecture), add to your notes and prepare questions for your lecturer or tutor
- Start working on any assignments immediately after they have been released.

Lecture notes are made available each week but these notes are intended as an outline of the lecture only and are not a substitute for your notes or reading of the other additional material.

Unit Schedule

Coronavirus (COVID-19) Update

The unit schedule/topics and any references to on-campus delivery below may no longer be relevant due to COVID-19. Please consult [iLearn](#) for latest details, and check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

Tentative teaching schedule, subject to change:

1	Unit Overview + Information Systems + SDLC process	Y.Wang	No Workshops this week
2	Development Methodologies + Agile Modelling	Y.Wang	Workshop Participation (1%)
3	Project Management	Y.Wang	Workshop Participation (1%). Diagnostic Quiz in enrolled workshops (5%)
4	Discovering Requirements	Y.Wang	Workshop Participation (1%)
5	Documenting System Requirements through diagrams	Y.Wang	Workshop Participation (1%)
6	Designing Databases	C.Ramakrishnan	Workshop Participation (1%)
7	Designing Input	C.Ramakrishnan	Workshop Participation (1%). Assignment-1 due Thursday 9 th April 2020 at 11.59 pm (15%)
Teaching Break (2 weeks) 10th April 2020 to 26th April 2020			
Students are expected to catch up with unit content (Weeks 1-7) and continue working in their groups on Assignment 2 Part 1			
8	Designing Output	C.Ramakrishnan	Workshop Participation (1%)

9	Human-Computer Interaction	C.Ramakrishnan	Workshop Participation (1%). Assignment-2 Part-1 due Friday 8 th May 2020 at 11.59 pm (10%)
10	Client-side Development	C.Ramakrishnan	Workshop Participation (1%)
11	Server-side Development	Y.Wang	Workshop Participation (1%)
12	Testing and Quality Assurance	C.Ramakrishnan	Workshop Participation (1%). Assignment-2 Part-2 Online Submission due Friday 29th May 2020 at 11.59 pm (15%)
13	Revision	Y.Wang and C.Ramakrishnan	Assignment-2 Part-2. Presentation in enrolled Workshops.

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 December 2017 and replaces the Disruption to Studies Policy.*)

Students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/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) (<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 help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and 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.

Student Enquiries

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

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.

Changes since First Published

Date	Description
18/02/2020	Requirements gathering assignment is now a group assignment