Program Code

MCOMI

Program Minimum Units

48

Standard Duration

2 Years

Program Faculty

Faculty of Engineering, Computer and Math Sciences

AQF Level

09

Academic Year

2021

These Program Rules should be read in conjunction with the University's policies (http://www.adelaide.edu.au/policies).

Overview

The Master of Computing and Innovation is a conversion program designed for students who wish to develop new skills in the areas of Information and Communication Technology (ICT) and management and innovation. It is suitable for students with no prior experience in computer science as well as those with existing qualifications. In this program students undertake a variety of core and elective courses, designed to provide skills in ICT, management and innovation, as well as a significant project designed to combine skills developed across the program.
The Master of Computing and Innovation is an AQF Level 9 Masters Conversion qualification with a standard full-time duration of 2 years.

Conditions

Condition of Enrolment

1. *Interruption of program*: Students must apply for permission from the Executive Dean or delegate before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

Academic Program Rules for Master of Computing and Innovation (MComp&Innov)

There shall be a Master of Computing and Innovation (MComp&Innov).

Qualification Requirements
Academic Program

To qualify for the degree of Master of Computing and Innovation, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 48 units

comprising:

1. Core courses to the value of 27 units
2. Elective courses to the value of 12 units
3. Research equivalent courses to the value of 9 units in the form of a research project
4. Unless exempted international students are required to take ELEC ENG 7057 Engineering Communication and Critical Thinking in lieu of an elective

Master of Computing and Innovation

To satisfy the requirements for Master of Computing and Innovation students must complete courses to the value of 48 units.

Core

All of the following courses must be completed:
COMP SCI 7015 Software Engineering & Project (3 units)
COMP SCI 7039 Computer Networks & Applications (3 units)
COMP SCI 7064 Operating Systems (3 units)
COMP SCI 7081 Computer Systems (3 units)
COMP SCI 7201 Algorithm & Data Structure Analysis (3 units)
COMP SCI 7202 Foundations of Computer Science (6 units)

and

Courses to the value of 6 units from the following:
ENTREP 7022 Creativity and Innovation (3 units)
PROJMGNT 5021 Project Management Fundamentals (3 units)
ENTREP 5036 Entrepreneurial Concepts and Mindset (3 units)
ENTREP 5038 New Venture Creation (3 units)

Electives

Courses to the value of 12 units from the following:

Students must choose one elective from the following:

Data and Information Management Stream
COMP SCI 7094 Distributed Databases & Data Mining (3 units)
COMP SCI 7306 Mining Big Data (3 units)
COMP SCI 7314 Introduction to Statistical Machine Learning (3 units)

and

General Electives to the value of at least 3 units but not more than 9 units from the following:

COMP SCI 7026 Computer Architecture (3 units)
COMP SCI 7059 Artificial Intelligence (3 units)
COMP SCI 7076 Distributed Systems (3 units)
COMP SCI 7305 Parallel and Distributed Computing (3 units)
COMP SCI 7306 Mining Big Data (3 units)
COMP SCI 7307 Secure Programming (3 units)
COMP SCI 7308 Cybersecurity Fundamentals (3 units)
COMP SCI 7314 Introduction to Statistical Machine Learning (3 units)
COMP SCI 7315 Computer Vision (3 units)
COMP SCI 7316 Evolutionary Computation (3 units)

and

Advanced Electives up to 6 units may be chosen from the following:
COMP SCI 7000 Software Architecture (3 units)
COMP SCI 7007 Specialised Programming (3 units)
COMP SCI 7010 Special Topics in Computer Science A (3 units)
COMP SCI 7012 Special Topics in Computer Science B (3 units)
COMP SCI 7023 Software Process Improvement (3 units)
COMP SCI 7092 Mobile and Wireless Systems (3 units)
COMP SCI 7094 Distributed Databases & Data Mining (3 units)
COMP SCI 7407 Advanced Algorithms (3 units)
COMP SCI 7408 Modelling and Analysis of Complex Systems PG (3 units)
COMP SCI 7409 Search Based Software Engineering (3 units)
COMP SCI 7411 Event Driven Computing (3 units)
COMP SCI 7412 Secure Software Engineering (3 units)
COMP SCI 7413 Introduction to Quantum Computing (3 units)
COMP SCI 7416 Applied Machine Learning (3 units)
COMP SCI 7417 Applied Natural Language Processing (3 units)

or

Courses to the value of up to 6 units may be taken from the following:

Any course offered by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC).

Research Project

All of the following courses must be completed:
COMP SCI 7098 Master of Computing & Innovation Project (9 units)

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