

Program Code

MSENG

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 Software Engineering aims to provide graduates with the knowledge, tools, and methods for defining software requirements and performing software design, construction, testing and maintenance tasks. Graduates should have the ability to design and construct large software systems and are well placed to secure rewarding technical careers within the software engineering industry.

The Master of Software Engineering is an AQF Level 9 Masters Extension 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 Software Engineering (MSoftE)

There shall be a Master of Software Engineering (MSoftE).

Qualification Requirements**Academic Program**

To qualify for the degree of Master of Software Engineering, 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 12 units

2. Elective courses to the value of 21 units
3. Research equivalent courses to the value of 15 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

Core courses

To satisfy the requirements for Core courses students must complete courses to the value of 12 units.

All of the following courses must be completed:

- COMP SCI 7007 [Specialised Programming](#) (3 units)
- COMP SCI 7015 [Software Engineering & Project](#) (3 units)
- COMP SCI 7023 [Software Process Improvement](#) (3 units)
- COMP SCI 7036 [Software Engineering in Industry](#) (3 units)

Research Project

To satisfy the requirements for Research Project students must complete courses to the value of 15 units.

All of the following courses must be completed:

- COMP SCI 7096A [Master of Software Engineering Project Part A](#) (6 units)
- COMP SCI 7096B [Master of Software Engineering Project Part B](#) (9 units)

Electives

To satisfy the requirements for Electives students must complete courses to the value of 21 units.

Students must choose one elective from each of the following streams:

Computer Security Stream

- COMP SCI 7044 Computer System Security (3 units)
- COMP SCI 7092 [Mobile and Wireless Systems](#) (3 units)

Data and Information Management Stream

- COMP SCI 7094 [Distributed Databases & Data Mining](#) (3 units)
- COMP SCI 7401 Introduction to Statistical Machine Learning (3 units)

Networks Stream

- COMP SCI 7045 Distributed High Performance Computing (3 units)
- COMP SCI 7092 [Mobile and Wireless Systems](#) (3 units)

and

Courses to the value of 12 units from the following:

- COMP SCI 7000 [Software Architecture](#) (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 7044 Computer System Security (3 units)
- COMP SCI 7045 Distributed High Performance Computing (3 units)
- COMP SCI 7092 [Mobile and Wireless Systems](#) (3 units)
- COMP SCI 7093 Evolutionary Computation (3 units)
- COMP SCI 7094 [Distributed Databases & Data Mining](#) (3 units)
- COMP SCI 7401 Introduction to Statistical Machine Learning (3 units)
- COMP SCI 7403 Mining Big Data (3 units)
- COMP SCI 7406 Secure Programming (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 7410 Computer Graphics (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)

Published on: 30 November, 2020 | 13:53:16

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