

**Program Code**

GCCMS

**Program Minimum Units**

12

**Standard Duration**

6 months

**Program Faculty**

Faculty of Engineering, Computer and Math Sciences

**AQF Level**

08

**Academic Year**

2017

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

**Overview**

The Graduate Certificate in Computer Science is designed for students with little experience in computer science, and provides a basic understanding of how software and hardware can be combined to overcome a range of complex challenges. Graduates can seek employment within the information technology industry, including careers in scientific, entertainment, networking, software engineering and defence sectors.

The Graduate Certificate in Computer Science is an AQF Level 8 qualification with a standard full-time duration of 0.5 years.

**Academic Program Rules for Graduate Certificate in Computer Science (GCertCompSc)**

There shall be a Graduate Certificate in Computer Science (GCertCompSc).

**Qualification Requirements****Academic Program**

To qualify for the Graduate Certificate in Computer Science, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 12 units including:

1. Electives to the value of 12 units.

**Graduate Certificate in Computer Science**

To satisfy the requirements for Graduate Certificate in Computer Science students must complete courses to the value of 12 units.

**Electives**

Courses to the value of 12 units from the following:

### Foundation Electives

- COMP SCI 7081 [Computer Systems](#) (3 units)
- COMP SCI 7088 [Systems Programming](#) (3 units)
- COMP SCI 7201 [Algorithm & Data Structure Analysis](#) (3 units)
- COMP SCI 7202 [Foundations of Computer Science](#) (6 units)
- COMP SCI 7204 [Advanced Programming Paradigms](#) (3 units)
- COMP SCI 7207 [Web and Database Computing](#) (3 units)

### General Electives

- COMP SCI 7015 [Software Engineering & Project](#) (3 units)
- COMP SCI 7026 [Computer Architecture](#) (3 units)
- COMP SCI 7027 [Computational Cognitive Science](#) (3 units)
- COMP SCI 7039 [Computer Networks & Applications](#) (3 units)
- COMP SCI 7059 [Artificial Intelligence](#) (3 units)
- COMP SCI 7064 [Operating Systems](#) (3 units)
- COMP SCI 7076 [Distributed Systems](#) (3 units)
- COMP SCI 7089 [Event Driven Computing](#) (3 units)
- COMP SCI 7090 [Computer Graphics](#) (3 units)
- COMP SCI 7305 [Parallel and Distributed Computing](#) (3 units)
- COMP SCI 7407 [Advanced Algorithms](#) (3 units)

### Advanced Electives

- COMP SCI 7000 [Software Architecture](#) (3 units)
- COMP SCI 7005 [Adaptive Business Intelligence](#) (3 units)
- COMP SCI 7007 [Specialised Programming](#) (3 units)
- COMP SCI 7009 [Modern Heuristic Methods](#) (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 7022 [Computer Vision](#) (3 units)
- COMP SCI 7023 [Software Process Improvement](#) (3 units)
- COMP SCI 7041 [Language Translators](#) (3 units)
- COMP SCI 7044 [Computer System Security](#) (3 units)
- COMP SCI 7045 [Distributed High Performance Computing](#) (3 units)
- COMP SCI 7054 [High Integrity Software Engineering](#) (3 units)
- COMP SCI 7077 [Solving Engineering Models](#) (3 units)
- COMP SCI 7091 [Commercialising IT Research](#) (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 7402 [Introduction to Geometric Algorithms](#) (3 units)
- COMP SCI 7306 [Mining Big Data](#) (3 units)
- COMP SCI 7307 [Secure Programming](#) (3 units)
- COMP SCI 7409 [Search Based Software Engineering](#) (3 units)

**Published on:** 19 December, 2016 | 17:04:25

DISCLAIMER: The information in this publication is current as at the date of printing and is subject to change. You can find updated information on our website at [adelaide.edu.au](http://adelaide.edu.au) With the aim of continual improvement the University of Adelaide is committed to regular reviews of the degrees, diplomas, certificates and courses on offer. As a result the specific programs and courses available will change from time to time. Please refer to [adelaide.edu.au](http://adelaide.edu.au) for the most up to date information or contact us on 1800 061 459. The University of Adelaide assumes no responsibility for the accuracy of information provided by third parties.

CRICOS 00123M © The University of Adelaide.

Content generated from <http://calendar.adelaide.edu.au>