

Program Code

GDCMS

Program Minimum Units

24

Standard Duration

1 Year

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 Diploma in Computer Science is designed for students with little experience in computer science and provides a fundamental understanding of how software and hardware can be combined to overcome a range of complex challenges. Graduates will have a demonstrated ability to design and construct large software systems. Employment may be sought within the information technology industry, including careers in scientific, entertainment, networking, software engineering and defence sectors. The Graduate Diploma in Computer Science is an AQF Level 8 qualification with a standard full-time duration of 1 year.

Academic Program Rules for Graduate Diploma in Computer Science (GDipCompSc)

There shall be a Graduate Diploma in Computer Science (GDipCompSc).

Qualification Requirements**Academic Program**

To qualify for the Graduate Diploma 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 24 units comprising:

1. Core courses to the value of 3 units
2. Elective courses to the value of 21 units
3. Unless exempted international students are required to take ELEC ENG 7057 Engineering Communication & Critical Thinking in lieu of an elective

Graduate Diploma in Computer Science

To satisfy the requirements for Graduate Diploma in Computer Science students must complete courses to the

value of 24 units.

Core

All of the following courses must be completed:

COMP SCI 7015 [Software Engineering & Project](#) (3 units)

Electives

Courses to the value of 21 units from the following:

Choose Foundation Electives to the value of at least 9 units:

- 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)
- COMP SCI 7084 Introduction to Software Engineering (3 units)

and

Choose General Electives to the value of at least 9 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 7307 [Secure Programming](#) (3 units)
- COMP SCI 7407 [Advanced Algorithms](#) (3 units)

Further courses may be chosen from the following Advanced Electives but it is not compulsory to choose from this list:

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 7409 [Search Based Software Engineering](#) (3 units)

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