



## The Graduate

<i>Family name</i>	Piotrowski
<i>Given name(s)</i>	Alexander Danny
<i>Student number</i>	5115499
<i>Date of birth</i>	11 August 1997

## The Award

*Name of award* Bachelor of Science  
in Computer Science

### *Detail*

The Bachelor of Science in Computer Science is an undergraduate degree consisting of 144 units of credit. It is taught in English and normally takes 3 years of full-time study, or the part-time equivalent. The degree structure requires the successful completion of compulsory, elective and general education courses including an approved major sequence of study in a computer science specialisation, and optionally, a minor which may be outside computer science. This qualification is located at Level 7 of the Australian Qualifications Framework. For more information see the university's program guide at [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au).

Admission to the program is competitive and is based on Australian and New Zealand final senior secondary studies or equivalent overseas qualifications, tertiary qualifications, or completion of alternative entry programs.

This program provides students with a sound knowledge in the design, construction, analysis and uses of computer systems, and in the representation of data in computer systems.

### *Pathway to further study*

Eligible graduates may apply to a separate Honours year program. Graduates have access to a range of Graduate Certificates, Graduate Diplomas and Masters degrees.

### *Program accreditation*

This degree is accredited by the Australian Computer Society.

## Awarding Institution

The University of New South Wales (UNSW Sydney/UNSW Canberra) is a public university, established in 1949 under legislation passed by the Parliament of New South Wales. It is a member of The Group of Eight (Go8) coalition of Australian universities, intensive in research and comprehensive in general and professional education. The University is listed as an Australian University on the Tertiary Education Quality and Standards Agency's National Register of Higher Education Providers. The University's Commonwealth Register of Institutions and Courses for Overseas Students number is 00098G. For additional information about the University of New South Wales see [www.unsw.edu.au](http://www.unsw.edu.au).

## Certification



Professor Merlin Crossley  
Deputy Vice-Chancellor Academic and Student Life  
23 JUNE 2022

The Australian Higher Education Graduation Statement is provided by Australian higher education institutions to graduating students on completion of the requirements for a particular higher education award. It provides a description of the nature, level, context and status of studies that were pursued by the individual named. Its purpose is to assist in both national and international recognition of Australian qualifications and to promote international mobility and professional recognition of graduates.

## Graduate's Academic Achievements

### Program details

This statement lists all courses completed as part of Undergraduate studies at UNSW.

BSc Bachelor of Science

Date of completion 20 MAY 2022

Date of conferral 23 JUNE 2022

### 3768 ENG (HONS) / MBIOMEDE - BE(Hons)

			UNITS	MARK	GRADE
SEMESTER 1 2016					
COMP	1917	Computing 1	6.00	70	CREDIT
ENGG	1000	Introduction to Engineering Design and Innovation	6.00	87	HIGH DISTINCTION
MATH	1141	Higher Mathematics 1A	6.00	79	DISTINCTION
PHYS	1131	Higher Physics 1A	6.00	64	PASS
SEMESTER 2 2016					
COMP	1927	Computing 2	6.00	57	PASS
ELEC	1111	Electrical and Telecommunications Engineering	6.00	69	CREDIT
MATH	1241	Higher Mathematics 1B	6.00	68	CREDIT
PHYS	1231	Higher Physics 1B	6.00	78	DISTINCTION

### TERM 1 2021

COMP 3131 Programming Languages and Compilers 6.00 75 DISTINCTION

### 3778 COMPUTER SCIENCE - BSc

SEMESTER 1 2017					
COMP	2121	Microprocessors and Interfacing	6.00	72	CREDIT
COMP	2911	Engineering Design in Computing	6.00	57	PASS
MATH	1081	Discrete Mathematics	6.00	76	DISTINCTION
SEMESTER 2 2017					
COMP	2041	Software Construction: Techniques and Tools	6.00	51	PASS
COMP	3421	Computer Graphics	6.00	57	PASS
MATH	3411	Information, Codes and Ciphers	6.00	89	HIGH DISTINCTION

### SEMESTER 1 2018

COMP 3121 Algorithms and Programming Techniques 6.00 65 CREDIT  
 COMP 3231 Operating Systems 6.00 57 PASS  
 COMP 6841 Extended Security Engineering and Cyber Security 6.00 58 PASS

### SEMESTER 2 2018

COMP 1521 Computer Systems Fundamentals 6.00 76 DISTINCTION  
 COMP 1531 Software Engineering Fundamentals 6.00 60 PASS  
 COMP 4920 Management and Ethics 0.00 44 FAIL

### TERM 1 2019

PHYS 1160 Introduction to Astronomy 0.00 20 FAIL

### TERM 3 2021

CDEV 1112 Creating Your Career: Employability for the Future 0.00 47 FAIL  
 COMP 4920 Professional Issues and Ethics in Information Technology 6.00 71 CREDIT  
 DART 1211 Expanded Animation 6.00 77 DISTINCTION



TERM 1 2022

COMP 3331	Computer Networks and Applications
COMP 3900	Computer Science Project

UNITS	MARK	GRADE
6.00	70	CREDIT
6.00	78	DISTINCTION

*Key to Grading*

See reverse.

*Special Achievements, Scholarships, Awards and Prizes*

*Scholarships and awards*

This section acknowledges the student received a competitive scholarship or award in recognition of academic excellence

2016 UNSW Computing Elite Students Award

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Entries below this line are invalid

## Description of the Australian Higher Education System

### *Introduction*

The Australian higher education system consists of self-governing public and private universities and higher education institutions that award higher education qualifications.

### *The Australian Qualifications Framework*

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools.



The AQF has 10 levels, each with defined criteria based on a taxonomy of learning outcomes. Higher education qualifications are placed between level 5 (the Diploma) and level 10 (the Doctoral Degree). The Bachelor Degree is at level 7. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of the knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type. The full set of levels criteria and qualification type descriptors can be found by visiting [www.aqf.edu.au](http://www.aqf.edu.au).

The main AQF qualifications awarded by higher education institutions are Bachelor Degrees, Masters Degrees and Doctoral Degrees. There are also three qualifications at the sub-degree level: the Diploma, the Advanced Diploma and the Associate Degree. At the graduate level but below the Masters Degree are the Graduate Certificate and Graduate Diploma. The Undergraduate Certificate, which was added to the AQF in 2020, is a higher education qualification that is not allocated to a single AQF level, but recognises completion of a short course, equivalent to half a year's study (0.5 Equivalent Full Time Study Load) toward an existing qualification at AQF level 5, 6 or 7.



Level	Summary	Qualification Type
Level 1	Graduates at this level will have knowledge and skills for initial work, community involvement and/or further learning	Certificate I
Level 2	Graduates at this level will have knowledge and skills for work in a defined context and/or further learning	Certificate II
Level 3	Graduates at this level will have theoretical and practical knowledge and skills for work and/or further learning	Certificate III
Level 4	Graduates at this level will have theoretical and practical knowledge and skills for specialised and/or skilled work and/or further learning	Certificate IV
Level 5	Graduates at this level will have specialised knowledge and skills for skilled and/or paraprofessional work and/or further learning	Diploma
Level 6	Graduates at this level will have broad knowledge and skills for paraprofessional and/or highly skilled work and/or further learning	Advanced Diploma Associate Degree
Level 7	Graduates at this level will have broad and coherent knowledge and skills for professional work and/or further learning	Bachelor Degree
Level 5-7	Graduates with this qualification will have foundational knowledge and skills for further study, professional upskilling, work and participation in lifelong learning	Undergraduate Certificate*
Level 8	Graduates at this level will have advanced knowledge and skills for professional highly skilled work and/or further learning	Bachelor Honours Degree Graduate Certificate Graduate Diploma
Level 9	Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning	Masters Degree
Level 10	Graduates at this level will have systematic and critical understanding of a complex field of learning and specialised research skills for the advancement of learning and/or for professional practice	Doctoral Degree

\*As at the publication of this document, the Undergraduate Certificate qualification type must not be conferred after 30 June 2025. Undergraduate Certificates that have been conferred prior to this date will continue to be recognised as valid AQF qualifications.



### *Admission*

Requirements for admission to particular awards are set by higher education institutions and provide a range of routes for entry and only admit those students considered to have potential to complete an award successfully. Admission of school leavers to undergraduate awards is typically on the basis of the level of achievement in Year 12 secondary education, although some institutions and awards also use interviews, portfolios or demonstrated interest or aptitude. Most institutions also provide alternative entry provisions via bridging or foundation programs for mature age students or other special provisions, such as recognition of prior learning from previous study. Admission to post-graduate awards is generally based on the level of achievement in previous higher education studies and in most cases, admission to PhD awards is based on high achievement in a research Masters Degree or in a Bachelor Degree with first class honours or second class honours division A.

### *Quality*

Quality assurance and stringent approval requirements for higher education institutions ensure that Australia has an international reputation for high quality education.

The Tertiary Education Quality and Standards Agency (TEQSA) was established on 30 July 2011 as a new national regulator and quality assurance agency for higher education. TEQSA is an independent body with the powers to regulate university and non-university higher education institutions and monitor quality against standards. Its purpose is to protect student interests and the reputation of Australia's higher education sector through a proportionate, risk-reflective approach to quality assurance that supports diversity, innovation and excellence.

From 29 January 2012 TEQSA assumed responsibility for registering and re-registering providers and accrediting and re-accrediting awards for higher education providers that do not have authority to accredit their own awards. At the time of registration, re-registration, accreditation and/or re-accreditation, TEQSA evaluates the performance of a higher education provider against the Higher Education Standards Framework. The framework specifies the minimum standards that all higher education providers must meet and continue to meet in order to remain registered.

TEQSA also monitors provider risks and performance and identifies good practice to support continuous improvement within the sector, guide sectoral quality enhancement and inform policy and research.

The Higher Education Standards Panel, which is independent from TEQSA, is responsible for advising the Minister for Education and TEQSA on the development, monitoring and interpretation of the Higher Education Standards Framework.

All higher education institutions receiving Australian Government financial support must meet quality and accountability requirements that are set out in the Higher Education Support Act 2003. The Australian Government also uses a range of tools to measure and monitor the quality of outcomes, while the interests of international students are protected by the Education Services for Overseas Students Act 2000 and the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS), providing tuition assurance and ensuring that institutions listed on CRICOS meet defined minimum standards.

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# Key to Grading

HIGH DISTINCTION	Outstanding performance; mark range 85-100
DISTINCTION	Superior performance; mark range 75-84
CREDIT	Good performance; mark range 65-74
PASS	Acceptable level of performance; mark range 50-64
SATISFACTORY	Satisfactory completion of a course for which graded passes are not awarded; a course with prefix 66 or REGS which is undertaken at another tertiary institution; a research course; or an industrial training requirement
RESEARCH SATISFACTORY	Satisfactory completion of a research course
PASS CONCEDED	Concessional pass allowing progression to another course for which the course is a prerequisite
PASS TERMINATING	Concessional pass not allowing progression to another course for which the course is a prerequisite
FAIL	Unsatisfactory performance
ABSENT FAIL	Unsatisfactory performance; assessment not attempted
DISCONTINUED FAIL	Discontinued with failure
UNSATISFACTORY FAIL	Unsatisfactory performance in an essential component of the course
AUDITED COURSE	Assessment not attempted; course not counted towards award requirements
ENROLMENT CONTINUING	Enrolled; course continues
RESEARCH CONTINUING	Enrolled in a research course; course continues
RESULT DEFERRED	Result Deferred to later semester
NON-GRADED COMPONENT	Enrolled in a course component
NOT COMPLETED	Course assessment requirements have not been completed in a timely manner
ASSESSMENT NOT APPLICABLE	Assessment not applicable for given course
EXCHANGE ENROLMENT	Enrolled; study undertaken as part of an exchange program
PROFESSIONAL EXPERIENCE	Enrolled; study undertaken as part of a professional experience requirement
AWARDED WITH HONOURS	Some undergraduate degrees may be awarded with Honours Class 1, or Class 2 Division 1, or Class 2 Division 2, or Class 3. For further information see the individual program entry in the University's program guide at <a href="http://www.handbook.unsw.edu.au">www.handbook.unsw.edu.au</a>
AWARDED WITH DISTINCTION	A weighted average mark (WAM) of at least 75 achieved in all courses completed since enrolment at UNSW which are credited to the relevant award
AWARDED WITH EXCELLENCE	A weighted average mark (WAM) of at least 80 achieved in all courses completed since enrolment at UNSW which are credited to the relevant award

## HIGHER RESEARCH DEGREES

Examination of the thesis is by up to three independent examiners, normally one to two of whom are external to the University. For further information see the University's program guide at [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au)

## THE AUSTRALIAN GRADUATE SCHOOL OF MANAGEMENT (AGSM)

The AGSM was established in 1977 at UNSW. A 1998 joint venture merged the AGSM and the University of Sydney's Graduate School of Business to form a new AGSM. Graduates received a joint degree from both universities. The joint venture ended in 2006. For an explanation of the AGSM Grading scheme see <https://student.unsw.edu.au/grades>

## FURTHER INFORMATION

For a comprehensive list of UNSW grades please refer to: <https://student.unsw.edu.au/grades>  
A link is also available to information for expressing UNSW grades in international terms. This site includes information regarding grading systems used for the institutes amalgamated and within the Sydney College of Advanced Education prior to 1985.