

# GCSE18 Graduate Certificate of Software Engineering

## 1. About the Graduate Certificate of Software Engineering

The Graduate Certificate of Software Engineering course learning outcomes ensure well rounded individuals are equipped to enter the industry at an advanced level and acquire the necessary learning to progress from Graduate Diploma to Master level Standard and Advanced. It provides the foundation for all postgraduate Software Engineering specialisations such as Cloud Computing, Artificial Intelligence, Blockchain and Networking & Cybersecurity.

The course focuses on the knowledge required to design and implement advanced software engineering techniques and analyses designing, developing and using systems whilst employing well-informed software engineering methodologies. Students explore models and architectural techniques to develop secure software engineered solutions and learn about platform constraints, version control and issue tracking, leading to a fundamentally strong and holistic postgraduate qualification. Project management and monitoring tools will enable real-time progress and issue tracking leading to efficient software development.

### Graduate employment opportunities

The Graduate Certificate of Software Engineering provides graduates with the capability for employment in either generalist or niche roles found within the software development industry.

#### Examples include:

- Associate Software Engineer
- Software Engineer
- Software Developer
- Developer
- Senior Developer
- Software Engineer
- Junior Systems Engineer
- Data Analyst

## Course Overview

<b>Course Title</b>	<b>Graduate Certificate of Software Engineering</b>		
<b>Study Options – Domestic Australian students</b>	<p>Face to Face delivery</p> <p>Online delivery</p> <p>Full-time and part-time options available.</p>	<b>Study Options – International students</b>	<p>International students on a student visa must not enroll into any more than a third or 33% of online subjects over their course and must study at least one subject that is face to face in each trimester.</p> <p>International students on a student visa are required to study full time, i.e. the student must complete a minimum of 1.0 EFTSL of study per year.</p>
<b>Start Dates</b>	<p>February, June, September</p> <p>For specific dates visit the <a href="#">website</a>.</p>	<b>Course Length</b>	<p>Full-time: 2 Trimesters</p> <p>Part-time: 4 Trimesters</p>
<b>Payment Options - Domestic Australian students</b>	<p><b>Upfront payment</b></p> <p>This means tuition fees will be invoiced each semester and payment is required on or before the due date.</p> <p><b>FEE-HELP</b></p> <p>FEE-HELP is Australian Government’s loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold. Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.</p>	<b>Payment Options – International students</b>	<p><b>Upfront payment</b></p> <p>This means tuition fees will be invoiced each semester and payment is required on or before the due date.</p>
<b>Course study requirements</b>	<p>Each subject involves 10 hours of study per week, comprising 3 hours of facilitated study and 7 hours self-directed study.</p>	<b>Assessment</b>	<p>Project/Application/Research Proposal, Process/Research Documentation, Application Outcome, Reflective Journal/Blog, Report/Essay, Presentation/Pitch, Examinations/Tests/Quizzes, Research, Collaboration, Individual self-directed major project, Work integrated learning project work,</p>



			Software development for social enterprise
<b>Locations</b>	Sydney Melbourne Adelaide Online	<b>Delivered by</b>	Torrens University Australia
<b>Provider</b>	Torrens University Australia Ltd is registered as a self-accrediting Australian university by the Tertiary Education Quality and Standards Agency (TEQSA).	<b>CRICOS Course Code</b>	N/A
<b>Provider obligations</b>	Torrens University is responsible for all aspects of the student experience, including the quality of course delivery, in compliance with the <a href="#">Higher Education Standards 2015</a>	<b>Accrediting body</b>	Torrens University Australia Ltd
<b>Course Fees</b>	For details, refer to the <a href="#">website</a> .	<b>Any other fees</b>	For details, refer to the <a href="#">website</a> .

## 2. Essential requirements for admission

The general admission criteria that apply to Torrens University Australia courses can be located by visiting the Torrens University Australia website - <https://www.torrens.edu.au/general-admission-information-for-torrens-university-australia-ltd>.

## 3. Admission Criteria

<b>Title of course of study</b>	<b>Graduate Certificate of Software Engineering</b>
<b>Applicants with higher education study</b>	The standard entry requirement is a completed qualification at AQF Level 7 (Bachelor degree) or above from an Australian University in a relevant field of study or an equivalent overseas higher education qualification or equivalent.



<b>Title of course of study</b>	<b>Graduate Certificate of Software Engineering</b>
<b>Applicants with vocational education and training (VET) study</b>	N/A
<b>Applicants with work and life experience</b>	Students without an undergraduate degree, may be admitted to the Graduate Certificate on the basis of <ul style="list-style-type: none"> <li>at least 3 years professional experience in software development (documented e.g. CV), demonstrating a reasonable prospect of success;</li> <li>AND</li> <li>a discipline specific portfolio;</li> <li>AND</li> <li>a recommendation letter from 2 most recent employers</li> </ul>
<b>English Language Proficiency</b> (applicable to international students, and in addition to academic or special entry requirements noted above)	IELTS level 6.5 required, with no element less than 6 (or equivalent TOEFL, CAE or PTE).

### Other admission options

*(For applicants who will be selected on a basis other than ATAR)*

<b>Special Entry</b>	Applicants in any category whose study, work or life experiences have been impacted by disability, illness or family disruption will be given special consideration for admission. Each application will be considered on its merit, based on the evidence supplied by the applicant attesting to the circumstances of the applicant. Applicants for special entry may need to complete written or numerical tasks to assist with assessing eligibility for admission.
----------------------	--

## 4. How to apply

Via direct application to the institution

- o <https://apply.torrens.edu.au/>

## 5. Advanced standing/academic credit/recognition of prior learning (RPL)

You may be entitled to credit for prior learning, whether formal or informal. Formal learning can include previous study in higher education, vocational education, or adult and community education. Informal learning can include on the job learning or various kinds of work and life experience. Credit can reduce the amount of study needed to complete a degree.

*Torrens University Australia Ltd, ABN 99 154 937 005, RTO 41343, CRICOS 03389E. Information provided in this document is current at the time of publishing (Feb 2021).*



Applicants admitted based on prior higher education study may be eligible for Advanced Standing in the form of credit and/or recognition of prior learning (RPL) under the Torrens University Australia [Credit Policy - \(https://www.torrens.edu.au/policies-and-forms\)](https://www.torrens.edu.au/policies-and-forms).

- Students with completed subjects may be eligible for specified credit and/or elective exemptions
- Students who have completed a qualification at AQF level 5 (diploma) or above may be eligible for block credit (where a block credit agreement exists)
- Students with a mix of formal study and informal and/or non-formal learning may be eligible for recognition of prior learning in addition to any credit approved.

Credit will not be applied automatically. Applicants must apply for credit and/or RPL as early as possible prior to each study period, with applications not accepted after week 2.

For further information about credit and recognition of prior learning please see <http://www.torrens.edu.au/apply-online/course-credits>.

## 6. Where to get further information

- Torrens University Australia (TUA) Website
  - <https://www.torrens.edu.au/>
- Universities Admissions Centre (UAC) Website
  - <http://www.uac.edu.au/>
- Quality Indicators for Learning and Teaching (QILT) Website
  - <https://www.qilt.edu.au/>

## 7. Additional Information

### Course Structure

The course structure comprises of 4 Software Engineering core subjects at level 400.

### Course Rules

To be awarded the Graduate Certificate of Software Engineering, students must complete 40 credit points over 4 subjects as outlined in the course structure. Each subject has a value of 10 credit points.

### Subjects

SUBJECT DETAILS
SUBJECT TITLE, DESCRIPTOR
LEVEL 400
<p><b>SEP401 Software Engineering Principles</b></p> <p>In this subject students are introduced to the current Software Engineering standards and processes, with the aim of enabling them to analyse, design, and implement software projects that follow certain quality measures at every stage of the Software Development Life Cycle. The subject covers requirements engineering, modelling and design of software, software architecture, verification and validation of software systems, and other topics that are related to software engineering practices.</p>

*Torrens University Australia Ltd, ABN 99 154 937 005, RTO 41343, CRICOS 03389E. Information provided in this document is current at the time of publishing (Feb 2021).*

<b>SUBJECT DETAILS</b>
<b>SUBJECT TITLE, DESCRIPTOR</b>
<p><b>HCD402 Human Centred Design</b></p> <p>This subject helps students explore several non-technical aspects of software development, especially pertaining to human behavior and interactions so that students can appreciate the human aspects of technology. Broadly, the subject covers the theory of knowledge, human cognition, ethical and moral values, analysis of human history, critical analysis, creative aspects of the human mind and social interaction among human beings through a technological context. Students will use the specialised skills that they gain in other subjects to help formulate and suggest innovative solutions to problems that affect diverse societies.</p>
<p><b>SBD403 Secure by Design</b></p> <p>This subject covers topics involving integration of the entire development lifecycle of IT systems in a secure environment through secure design methodologies, software development models, architecture design and industry Secure by Design standards like OWASP (Open Web Application Security Project). Students learn how to build adequate security into systems to maintain integrity and safety of the functionality of IT systems while being exposed to cyber threats.</p>
<p><b>SDM404 Software Development Management</b></p> <p>In this subject the students are introduced to the main project management principles and modern software project management practices. During the subject, the different methods for managing and optimising the software development process are discussed along with the different techniques for performing each phase of the software development life cycle.</p>

## Locations

The Graduate Certificate of Software Engineering can be studied fully online or at the below Torrens University Campuses:

- Sydney: Level 1, 46-52 Mountain Street, Ultimo NSW Australia 2007
- Melbourne: 196 Flinders St, Melbourne, VIC 3000
- Adelaide: 82-98 Wakefield Street, Adelaide, SA, 5000

## Campus Facilities and Services

All campuses are designed to provide students with professional spaces in which to learn and work. They have been planned with student study needs in mind with well-equipped accessible learning spaces as well as student breakout areas for group work and spending time with friends.

Facilities and Services include:

- The Customer Service Hub – our friendly and experienced staff can give help and advice about courses, your enrolment and campus life, including all services and activities on campus.
- Counsellors are available for students to consult with on a range of personal issues
- Student wireless access throughout the Campus
- Student break-out and relaxed study spaces for group work
- Student lounge areas – most with microwaves, kitchenette facilities and vending machines
- The Learning Hub, home to the Learning Support Team, encompasses Learning Skills Advisors, Learning Technology Advisors, and Library & Learning Skills Officers. It provides an integrated, holistic support program for students throughout the study lifecycle within a library/collaborative study environment.

The service includes:

- Support and workshops with highly qualified staff in the areas of Academic skills, Library skills, and Technology skills, both on campus and online.
- Physical and digital resources relevant to studies, such as books, journals, multimedia, databases
- Self-check kiosks for library loans and print and copy facilities

## A positive student experience

Torrens University Australia values the importance of a positive student experience, and therefore has robust processes to resolve student complaints. The Student Complaints Policy, and associated procedures, can be accessed from the [website](https://www.torrens.edu.au/policies-and-forms) (<https://www.torrens.edu.au/policies-and-forms>).

## Paying for your qualification

We offer two payment options for this course:

- **Upfront payment**

If you want to complete your qualification debt-free you can choose to pay as you go. This means tuition fees will be invoiced each semester and payment is required on or before the due date using EFTPOS, credit card or direct transfer.

- **FEE-HELP**

FEE-HELP is Australian Government's loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold (\$45, 881 in 2019-20). Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.

Further information about FEE-HELP, including eligibility, is available at:

- FEE-HELP website:  
<http://studyassist.gov.au/sites/studyassist/help-payingmyfees/fee-help/pages/fee-help->
- FEE-HELP booklets:  
<http://studyassist.gov.au/sites/studyassist/helpfulresources/pages/publications>

## Austudy and Abstudy

Students enrolled in this course may be eligible for government assistance, such as [Austudy](#) or [Abstudy](#).