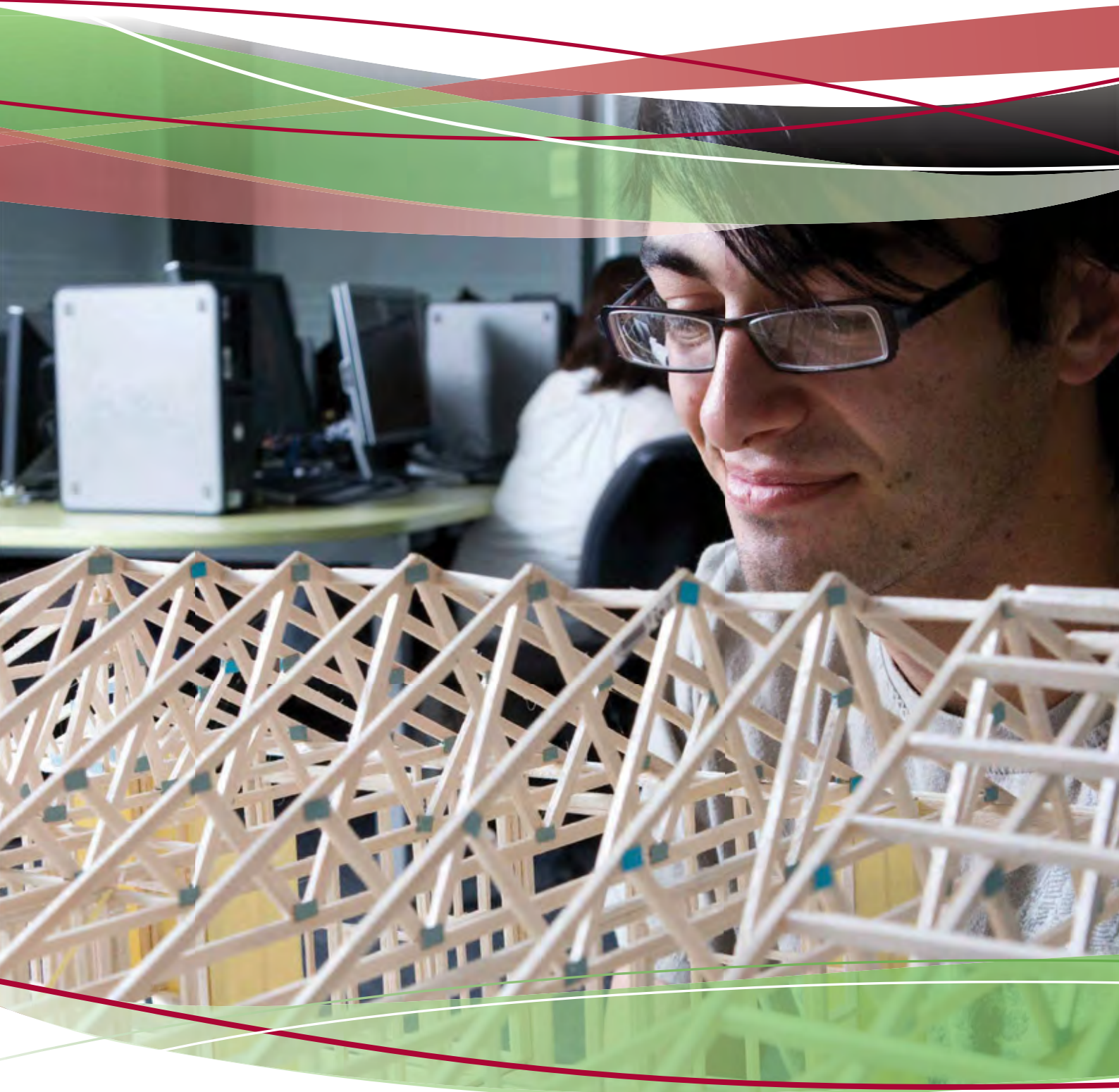




**Southbank**  
Institute of Technology  
Education for aspiring minds

# Civil Engineering and Built Environment

Program Guide 2012







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## Key

- Q** **QTAC**  
Apply directly to Queensland Tertiary Admissions Centre (QTAC).  
*Note: QTAC codes in this guide are current for 2011.*
- DE** **Direct Entry**  
Apply directly to Southbank Institute of Technology.
- OL** **Online**  
The course is offered online.
- FT** **Full-time**  
The course is offered on a full-time basis.
- PT** **Part-time**  
The course is offered on a part-time basis.
- VFH** **VET FEE-HELP approved**  
This course is VET FEE-HELP approved. Please see page 14 for more information.
- FH** **FEE-HELP approved**  
This course is FEE-HELP approved



*Check out [southbank.edu.au](http://southbank.edu.au) for the latest VET FEE-HELP course information.*

Information and courses contained within this booklet are correct as at June 2011 and are subject to change at any time without notice. For up to date information call 13 72 48 or visit [southbank.edu.au](http://southbank.edu.au)

# Why you should study with us.

Here's why more than 28,000 students from over 90 countries chose to study with us in 2010.

## 1 We will help shape your career

- we provide quality education for a range of careers
- our courses give you the practical skills so you are job ready
- we offer 140 formal pathways to university
- 88.2% of graduates go on to further study or get a job after\*.

## 2 We are a leading training provider with highly skilled teachers

- our respected industry focused teachers strive to deliver you the best teaching
- we work with industry to deliver up-to-date training packages endorsed by the Australian Quality Training Framework.

## 3 We offer a world-class learning environment

- we recently completed a major redevelopment of our Southbank campus to create a world-class facility designed to inspire interactive and student-focused teaching and learning
- our campus offers open and flexible learning spaces so you can work at your own pace and be your best
- study modes available including full-time, part-time, short courses, online, flexible delivery and on-the-job training.

## 4 We are centrally located

- our Southbank Campus is located in the heart of Brisbane's cultural precinct and right next to the city centre. It is easily accessible to buses, trains and the City Cat
- newly opened student accommodation is available next door to our main campus.

## 5 We provide an international perspective

- we currently have 3,500 international students studying with us from more than 90 countries
- we can provide international students an excellent pathway into university or further training
- international students can access a first class support network, including a dedicated International Student Support team, an International Student Social Club and English Language Intensive Courses for Overseas Students (ELICOS)
- we can point you in the right direction to help you find accommodation.

## 6 We will support you

We offer a wide range of services to help you when you need it most, including:

- scholarships and bursaries
- career counselling
- AccessAbility services
- library
- literacy and Learning Centre
- Indigenous Australian student support
- student employment opportunities
- a 24 hour security team.

## 7 We offer a wide variety of courses of highly sought after disciplines

Choose from a range of courses in the following areas:

- Health Services
- Biotechnology
- Engineering
- Multimedia
- Hospitality and tourism
- Creative industries
- Business services.

*Where to from here?*

*Visit our website [southbank.edu.au](http://southbank.edu.au) for information on courses available and study options or contact us on 13 72 48.*

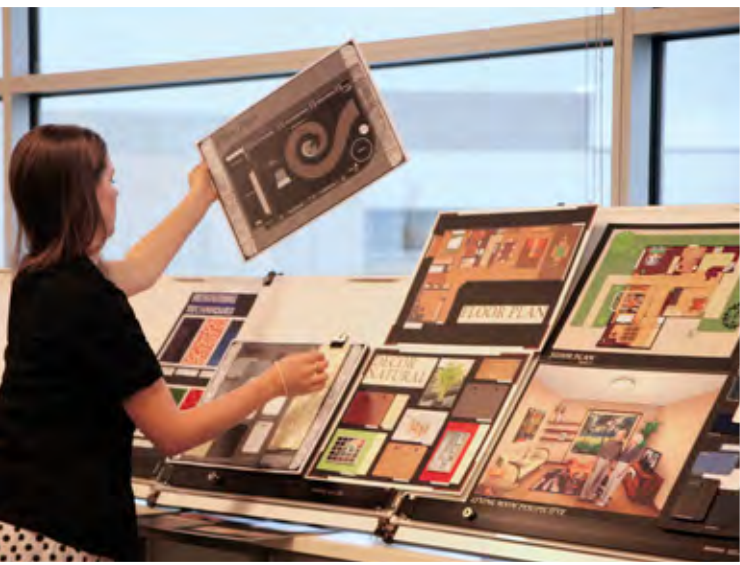


Check us out on **facebook**/SBITBrisbane



Follow us on **Twitter** @SBITBrisbane

\*Source: National Centre for Vocational Education Research (NCVER), 2009 Summary of Graduate Outcomes.



## Why choose Civil Engineering or Built Environment studies at Southbank Institute?

A Southbank Institute of Technology qualification can make all the difference to your future, giving you the competitive edge you need to shape your career in civil engineering, architectural/Computer-Aided Drafting (CAD) studies, building design or interior technology.

At Southbank Institute you will enjoy premium access to experienced teachers, up-to-the-minute industry relevant courses, simulated working environments and hands-on, practical tuition. You will also enjoy the benefits of world-class learning facilities located in the heart of South Bank.

Whether you are just starting on your career path, looking for a career-change or to up-skill, Southbank Institute provides practical, industry relevant courses to enhance your employability, ranging from professional development short courses to diploma to post-degree level.

Our building, architectural drawing and design courses are highly regarded, providing some of the leading courses in the country. These qualifications provide secure and financially rewarding career prospects, with employment opportunities both nationally and internationally.

Southbank Institute's close links with industry partners ensure that employers seeking cadets frequently come to the Institute first. Many of our students studying our Associate Degree in Civil Engineering gain employment within their first year of study. This enables them to switch to part-time study and earn while they learn.

Why study with us? Because your talent, passion and dedication - combined with Southbank Institute's superb facilities, smaller classes, practical teaching and pathways to university - will give you exactly what you need to fast-track a successful career in civil engineering or built environment.



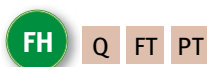
*"GHD in Southern Queensland has had a strong relationship with the Institute for many years".*

*Chris Carne, GHD*



# Civil engineering

## Associate Degree in Civil Engineering



Course No	Duration	Entry criteria
HE001 QTAC code 155948	2 years (full-time), 4 years (part-time)	Year 12 or equivalent with a sound achievement in English, or a recognised Certificate III or IV. Year 12 maths B or equivalent is assumed knowledge. Though not essential, it is recommended.

You can enrol in the above Associate Degree or one of the pathway courses below. Successful completion guarantees direct entry, with study credits, into the university degree without the need to re-apply through QTAC.

Course No	Pathways to university
QTAC code 155994	Associate Degree in Civil Engineering / Bachelor of Engineering – Civil (QUT). 4 ½ years in total.
QTAC code 155990	Associate Degree in Civil Engineering / Bachelor of Engineering – Civil (University of Southern Queensland). 4 ½ years in total.
QTAC code 155626	Associate Degree in Civil Engineering / Bachelor of Engineering Technology – Civil (University of Southern Queensland). 3 years in total.

**Career opportunities** Associate professional – design drafter using computers in the production of drawings for a broad range of applications including roads, tunnels, railways, pipelines, dams, bridges, high-rise buildings, landscape architecture, plant engineering, mining engineering, industrial water and waste management and more.

Employers actively seek out our students for cadetships due to the industry-relevant and practical training offered in this course. These qualifications provide excellent employment opportunities, financially rewarding career prospects and the possibility of employment both nationally and internationally.

**Description** This course will fast-track your career in civil engineering by developing your design and drafting skills. You will learn how to design and produce drawings for a variety of public facilities such as roads, pipelines, dams, bridges, steel and concrete structures. Your studies will cover a wide range of occupational fields, from CAD programs to surveying and construction. This Associate Degree incorporates the Diploma of Computer Aided Drafting, and is a higher education sector qualification.

**Further study options** Successful completion of this program may assist you to gain entry into relevant degree courses at The University of Queensland (UQ) and Central Queensland University (CQU) through the usual QTAC application process, and may contribute toward study credits.

*“Southbank Institute of Technology offers a unique learning environment where class numbers are small and teacher/student contact is much greater”.*

*Student,  
Associate Degree in Civil Engineering 2010.*



\*FEE-HELP is an Australian Government Initiative. Available on Associate Degree in Civil Engineering. Eligibility criteria applies. Applies to tuition fees only. Excludes incidental fees. Refer to southbank.edu.au for more information.



# Building design

## Advanced Diploma of Building Design and Project Administration

DE OL PT

Course No	Duration	Entry criteria
39210QLD	1 – 2 years (online)	Successful completion of a Diploma of Building Design and Technology, or equivalent, and a minimum of two years industry experience. It is advisable to be currently working within the industry.

**Career opportunities** Project or contract administrator of large construction projects, building developer or building designer (complex building design). Project administrator working with architects, builders or building designers. With the appropriate site experience, you could operate your own drafting/design office, in accordance with regulatory authority requirements.

**Description** Recognition of Prior Learning only (RPL). This project-based program assesses your experience as a project team leader on large projects. Focusing on design, management, presentation and documentation, this program satisfies the technical requirements for an Open Licence as a Building Designer through the Building Services Authority of Queensland.

## Diploma of Building Design and Technology

VFH Q FT PT

Course No	Duration	Entry criteria
39208QLD QTAC codes 155302 155306	2 years (full-time), 4 years (part-time)	Sound achievement in Grade 12 maths A (B or C) plus English, or their approved equivalents. Applicants who do not have this knowledge may be considered.

**Career opportunities** Building designer/draftsperson in a construction company, various roles within a building design or architectural practice, CAD manager, building design office manager, estimator within the construction industry, positions in companies associated with building such as window manufacturers, truss companies, re-cast manufacturers, etc.

**Description** This course focuses on developing your skills using new technology to design, draw and present building plans. The course covers the principles of building construction, interpreting client briefs, building design and drawing plans using manual and computer-generated technical drawings.

**Further study options** Bachelor of Design (Architecture) (QUT), Bachelor of Building Design and Technology (QUT). Successful completion of the diploma may assist you to gain entry into these university courses through the usual QTAC process and may contribute towards study credits.

Other options at Southbank Institute include:

- Vocational Graduate Certificate in Architectural Digital Illustration.





# Interior technology

## Diploma of Interior Technology Q FT PT

Course No	Duration	Entry criteria
39225QLD QTAC codes 155022 155026	2 years (full-time), 4 years (part-time)	Sound achievement in Grade 12 maths A (B or C) plus English, or their approved equivalents. Applicants who do not have this knowledge may be considered.

**Career opportunities** Draft person working on residential or commercial projects under supervision of architects or building designers, interior designers, builders or project administrators; kitchen/bathroom designer, or self-employed following the appropriate industry experience. Graduates have the opportunity to join the Design Institute of Australia (DIA) as a Graduate Member which, with additional workplace experience, leads to Associate Membership.

**Description** This diploma will develop your practical skills in modelling, planning and undertaking refurbishments based on an interior designer's concept. Topics include design sketches, construction methodology, manual and computer-generated technical drawings, client presentations and selection of materials, colour schemes, fabrics, furniture, fixtures and finishes. You can choose to exit the course earlier with a Certificate IV in Residential Interior Technology.

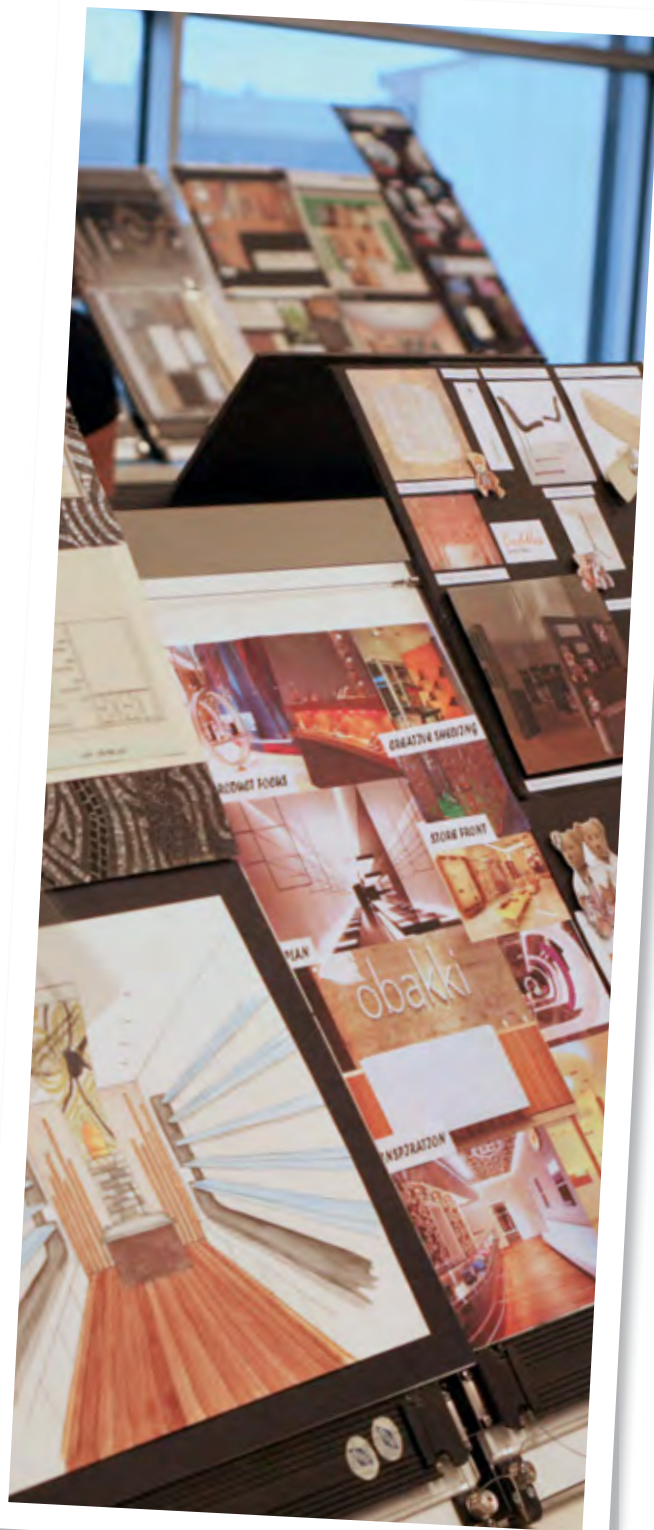
**Further study options** Bachelor of Design – Interior Design (GU). Up to 5 students who meet certain criteria at the end of year 1 of the diploma are eligible to undertake concurrent study at Griffith University in year 2, thus obtaining the diploma and the degree at the end of year 3.

Bachelor of Design (QUT). Successful completion of the diploma may assist you to gain entry into this university course through the usual QTAC process and may contribute towards study credits.

Other options at Southbank Institute include:

- Vocational Graduate Certificate in Architectural Digital Illustration.

*In 2010, a former Southbank Institute student won the prize for best GPA in Interior Design at Griffith University. By taking the Southbank Institute pathway to Griffith on completion of her Diploma, she now walks away with both the diploma and degree after just three years.*





## CAD-ARCH Architectural Computer-Aided Drafting

DE PT

Course No	Duration	Entry criteria
CAD-ARCH	Course comprises 6 courses, 50 hours per course. Can be completed in a minimum of 2 years (part-time). Mid-year and end of year in-take.	Applicants must have drawing office experience in the construction industry or be currently studying in a related field.

**Career opportunities** Professional development/skills upgrade for architects, building designers, interior designers and technicians.

**Description** This course is specifically designed to provide you with architectural CAD skills. You will learn how to produce 2D drawings, 3D models and digital presentations using the latest releases of software such as AutoCAD, Autodesk Viz and Autodesk Revit.

**Further study options** Diploma of Building Design or Interior Technology. Vocational Graduate Certificate in Architectural Digital Illustration.

## Introduction to Revit Architecture

DE PT

Course No	Duration	Entry criteria
FFS508	18 hours (1 night per week for 6 weeks)	Computer skills are essential. Skills in CAD software recommended.

**Career opportunities** Professional development/skills upgrade for architects, building designers, interior designers and technicians using the latest releases of Revit Architecture.

**Description** Revit's parametric technology means you can make a change anywhere in a building project and it is automatically updated everywhere else. This short course teaches you how to produce 2D drawings, 3D models and digital presentations using Revit Architecture software.

**Further study options** Diploma of Building Design or Interior Technology. Vocational Graduate Certificate in Architectural Digital Illustration.

## Revit Architecture Intermediate

DE PT

Course No	Duration	Entry criteria
FFS509	18 hours (1 night per week for 6 weeks)	Computer skills are essential. You should have completed the Introduction to Revit Architecture course, or be familiar with the software product.

**Career opportunities** Professional development/skills upgrade for architects, building designers, interior designers and technicians using the latest releases of Revit Architecture.

**Description** Using your existing Revit Architecture skills, you can further advance your modelling and design skills with this intermediate course.

**Further study options** Diploma of Building Design or Interior Technology. Vocational Graduate Certificate in Architectural Digital Illustration.

# Architectural and CAD studies

## Architectural Digital Illustration Vocational Graduate Certificate



Course No	Duration	Entry criteria
39157QLD	1 year (part-time). Mid-year and end of year in-take.	There are a number of entry points including a bachelor degree specialising in design or another relevant qualification combined with vocational experience. Applicants without formal qualifications but with extensive, relevant industry experience may also be considered.

**Career opportunities** Ideal for professional development to enhance opportunities for career advancement. Potential for employment across a wide range of the architectural and creative industries.

**Description** This course is designed to help you obtain maximum advantage of the rapidly expanding technology available in this field. It addresses the urgent need for specialists who can integrate theoretical knowledge with practical skills in advanced digital technology. The course will facilitate your ability to provide heightened technical visualisations of a proposed architectural feature. You will develop an understanding of the demands required across the design, creation, development and production of a digital architectural illustration of a major building development.

**Further study options** Master of Digital Design (Griffith University). Successful completion of the vocational graduate certificate may assist you to gain entry into this course. At the discretion of the university, graduates may be granted credit of up to 20 credit points or 25% of the course.

*"A lot of the technical skills you learn at Southbank Institute are exactly what you use in the workforce. Also, having access to teachers in a small classroom environment is a big plus".*

*Student, Architectural Digital Illustration 2009.*

*\*Architectural digital illustrations courtesy of Tracey Shaw*



### Pathways to university\*

Southbank Institute of Technology is a recognised centre of excellence for its pathways to universities. We have partnered with major Queensland universities to give diploma, advanced diploma and associate degree graduates recognition for the quality of education and training they receive at Southbank Institute.

Many Southbank Institute diplomas and advanced diplomas articulate into degree courses with our partner universities.

If you didn't get the right OP it's not the end of the world. By completing a diploma or advanced diploma at Southbank Institute, you can improve your OP score and heighten your chances of securing a place to university.

For more information about pathways visit [southbank.edu.au](http://southbank.edu.au) or check out our Pathways to your Future brochure.

### Need more information?

We have a range of brochures designed to help you to make the right decision and include:

- The Southbank Experience
- Parents Guide
- Support for Students
- Pathways to your Future
- Post-Degree Study

Our brochures are the perfect way to assist you with what Southbank Institute has to offer. Alternatively, if you would like to speak to us you can call 13 72 48.

### FEE-HELP

At Southbank Institute of Technology eligible students can defer all or part of their tuition fees (excludes incidental fees) through the Commonwealth Government's loan scheme, FEE-HELP. FEE-HELP is an interest free Commonwealth loan that is repaid once students meet an income threshold. FEE-HELP is only available to Australian citizens or holder's of permanent humanitarian visas studying Higher Education courses such as the Associate Degree in Civil Engineering. Deferred fees incur a loan fee and are indexed according to the Consumer Price Index (CPI).

#### For further information

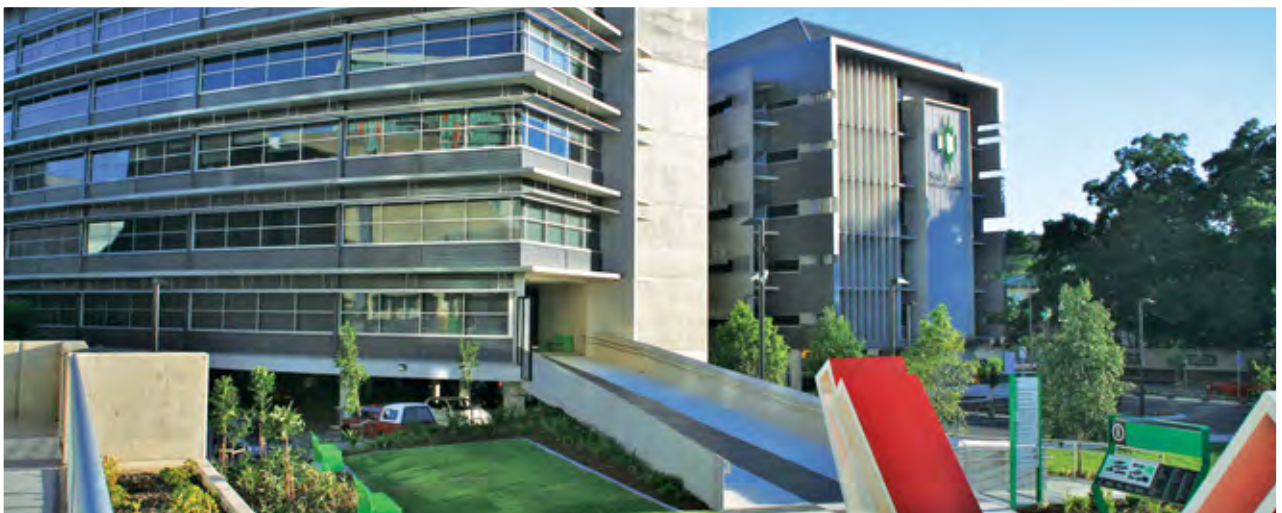
Visit [southbank.edu.au/feehelp](http://southbank.edu.au/feehelp)

### VET FEE-HELP

VET FEE-HELP assists eligible students undertaking certain Vocational Education and Training (VET) courses at Southbank Institute to pay for all or part of their tuition costs (excludes incidental fees). VET FEE-HELP is an Australian Government initiative and is an extension of FEE-HELP, as part of the Higher Education Loan Program (HELP). Students repay the loan to the Australian Government through the tax system once a student reaches the minimum income threshold level for repayment.

#### For further information

Visit [southbank.edu.au/vetfeehelp](http://southbank.edu.au/vetfeehelp)



*University abbreviations:	ACU	Australian Catholic University National	QUT	Queensland University of Technology
	CQUni	Central Queensland University	UQ	The University of Queensland
	CSU	Charles Sturt University	USC	University of the Sunshine Coast
	GU	Griffith University	USQ	University of Southern Queensland

# Enrol in four easy steps

## 1. Select the course you want to study



## 2. Contact Student Administration

Phone 13 72 48 for the most recent up-to-the-minute information or go to our website [southbank.edu.au](http://southbank.edu.au)



## 3. Apply to QTAC or Southbank Institute of Technology

Apply to QTAC (Queensland Tertiary Admissions Centre) or to Southbank Institute of Technology, depending on the course you choose (the courses listed in our careers booklets will let you know whether or not a QTAC application is required).



## 4. Secure your enrolment

Pay your fees before the course commences to secure your enrolment. Limited places are available in most courses.

For further information about how to enrol:  
Visit [southbank.edu.au/howtoenrol](http://southbank.edu.au/howtoenrol) or call 13 72 48.



Don't forget to 'like' our Facebook page and follow what's happening on Twitter!

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