



Southbank
Institute of Technology
Education for aspiring minds

Sciences

Program Guide 2012



Queensland Government



Southbank
Institute of Health

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Program 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.
- WB** **Workplace Based / External**
This course is delivered in your place of work.
- OL** **Online**
The course is offered online.
- FD** **Flexible Delivery**
A course delivered through a range of methods.
- 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 10 for more information.



Check out 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

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 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 Science at Southbank Institute?

A major development investment program at Southbank Institute has been completed to provide world-class teaching facilities with cutting edge design, giving students access to some of the best scientific teaching laboratories in Australia.

Our teachers have real and relevant industry experience and are professionally trained and qualified, so you can get the most from studying at Southbank Institute. They are also committed to developing and maintaining links with organisations within the scientific industry to ensure you have access to the most up-to-date relevant information. These nurtured industry links also means you'll graduate with the work-ready skills industry needs. Graduates from our science courses are in high demand and well regarded by employers.

There is a wide-range of industries employing people with qualifications relating to pathology and laboratory technology, including organisations involved in pharmaceuticals, the environment, food processing, biotechnology and forensics. Job prospects for pathology assistants and phlebotomists are considered good with current job vacancy levels at a high level* so there are jobs available for people qualified in these areas.

We have courses perfect for whether you're looking to get started in industry which are held on-campus or courses that can be delivered in your workplace. You may have been working in industry for a while and wish to gain a formal qualification or you may want to upskill from your current position. Whichever option is for you, our teachers and workplace training officers can help you with the knowledge and practical skills you need to achieve the outcome you desire.



Science Industry Preparation (SIP)

Science Industry Preparation (SIP) is delivered via the nationally accredited MSL09 laboratory operations package and is run alongside the science extension curricula for years 10 and 11 – in conjunction with students' school work.

Certificate III Laboratory Skills

Weeks 1-7	Online self-paced training and assessment
Week 8	5-day on-campus intensive laboratory training and assessment at Southbank Institute
Employment outcome	Laboratory Assistant
Entry Co-requisites	(1) Pass Year 10 science extension curriculum OR (2) pass in either year 10/year 11 biology or chemistry. (Eligible year 11 students may also enter the Certificate III course)

Certificate IV Laboratory Techniques

Weeks 1-10	Online self-paced training and assessment
Weeks 11-12	8-day on-campus intensive laboratory training and assessment at Southbank Institute
Employment outcome	Laboratory Assistant / Technical Assistant
Entry Co-requisites	(1) Pass in either year 11 biology or chemistry + (2) completion of Certificate III in Laboratory Skills

Students gain valuable industry skills and hands-on laboratory training in a wide variety of science specialisations (including pathology, forensics, biotechnology, environmental sustainability). They also receive a nationally recognised qualification enabling students to gain employment in the field of science while they continue their tertiary studies.

*Leaving school?
Want to discover your future?
Check out southbank.edu.au/discover*

*Source: www.joboutlook.gov.au, as at February 2011.



Vocational Graduate Certificate in Biotechnology



Course No.	Duration	Entry criteria
MSL70109	6 months	Degree in science with a major in chemistry. Or, a relevant diploma combined with five years' relevant work experience. Or, extensive relevant industry work experience.

Career opportunities Laboratory supervisor or manager, quality control analyst, scientific executive, environmental officer, scientific project manager, production chemist or quality assurance manager within the pharmaceutical, nutraceutical, food technology and allied industries.

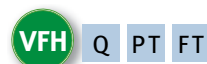
Description This is a skills-based qualification that has been specially developed in consultation with industry to provide training to maximise employability skills. As a post-degree qualification it is positioned between bachelor and masters level qualifications. If you have completed university and are looking to gain practical work-ready skills or if you've been working in the industry without any formal qualifications this could be the course for you.

You will cover areas including:

- quality control
- quality assurance
- regulatory compliance standards
- analytical chemistry and complex molecules.

Venue Southbank and workplace.

Advanced Diploma of Laboratory Operations – (multiple specialisations) (incorporating Diploma of Laboratory Technology)



Course No	Duration	Entry criteria
MSL60109	2 years (full-time)	Year 12 or equivalent. Year 12 science, English and mathematics are highly desirable. Alternatively, entry is based on merit, vocational experience, previous study and personal competencies.
QTAC codes 155946 155944	4 years (part-time)	

You can enrol in the above Diploma 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
MSL60109 QTAC codes 155568 155566	Advanced Diploma of Laboratory Operations / Bachelor of Biomedical Science (USC). 3.5 years in total.
MSL60109 QTAC codes 155596 155598	Advanced Diploma of Laboratory Operations / Bachelor of Environmental Science (USC). 3.5 years in total.
MSL60109 QTAC codes 155556 155558	Advanced Diploma of Laboratory Operations / Bachelor of Applied Science (QUT). 4 years in total.
MSL60109 QTAC codes 155294 155296	Advanced Diploma of Laboratory Operations / Bachelor of Science (GU). 4 years in total.

Science

Career opportunities Laboratory technician, laboratory analyst, analytical chemist, laboratory team leader, laboratory supervisor.

Description The Advanced Diploma of Laboratory Operations incorporates the Diploma of Laboratory Technology.

Specialisations are offered in the following areas:

- pathology
- environment and sustainability
- forensic laboratory technology
- food science.
- pharmaceuticals
- analytical chemistry
- biosciences

At this level, you will build on skills and knowledge from the diploma and learn advanced techniques and procedures that are used within your chosen specialised industry. Practical general laboratory skills are also covered within the courses giving you an understanding of the skills required to carry out advanced roles within the laboratory.

Southbank Institute has links with the USC, QUT and GU so you can enter partway through one of their degree courses detailed above. This means you can benefit from direct entry into university and get a dual qualification. Your studies will combine practical skills and theoretical knowledge that will hold great appeal to potential employers.

Further study options Vocational Graduate Certificate in Biotechnology, university programs.

Diploma of Laboratory Technology (multiple specialisations) (incorporating Certificate IV in Laboratory Techniques)

Course No	Duration	Entry criteria
MSL50109 QTAC codes 155546 155548	18 months (full-time)	Year 12 or equivalent. Science, English and mathematics are highly desirable. Alternatively, entry is based on merit, vocational experience, previous study and personal competencies.

Career opportunities Laboratory technician, laboratory analyst, analytical chemist, laboratory team leader.

Description The Diploma of Laboratory Technology is offered with a range of specialisations so you can study in an existing area of interest or gain further skills in an industry you are already working in. As with the Advanced Diploma we offer specialisations in the following areas:

- pathology
- environment and sustainability
- forensic laboratory technology
- food science.
- pharmaceuticals
- analytical chemistry
- biosciences

Each diploma covers general laboratory skills so you will develop a wide range of knowledge and practical skills to perform routine laboratory procedures. The individual courses are designed to provide you with both specific skills and theoretical knowledge to

support a career path in your chosen specialised industry. As part of this course you will also cover all competencies required for the Certificate IV in Laboratory Techniques so you'll graduate with two recognised qualifications.

Further study options Advanced Diploma of Laboratory Operations.

Certificate IV in Laboratory Techniques FT WB

Course No	Duration	Entry criteria
MSL40109	6 months (full-time) 1 year (flexible).	Year 10 or equivalent. Must be currently employed in the industry with support from a workplace supervisor. Current Certificate III in Laboratory Skills.

Career opportunities Laboratory assistant, technical officer.

Description The Certificate IV in Laboratory Techniques covers a full range of technical skills and a broad scientific knowledge. Learn how to perform a variety of functions including sampling and testing and gain a better understanding of communication and workplace issues. This course is offered either full-time on-campus in our science laboratories, or if you are already working within the industry can be delivered in your workplace via one of our workplace training officers.

Further study options Diploma of Laboratory Technology.

Venue Southbank campus or workplace.

Certificate III in Laboratory Skills OL FD WB

Course No	Duration	Entry criteria
MSL30109	6 months - 1 year (flexible)	Year 10 or equivalent.

Career opportunities Laboratory assistant.

Description The course provides you with the knowledge and skills to achieve an outcome that will enhance your prospects within a laboratory skills environment. It includes units covering basic sampling and testing, following set procedures, applying well-developed technical skills and basic scientific knowledge. With the option of completing this qualification on-campus in our world-class laboratories or in your current place of work (if it's within the industry), it's perfect for you whether you've an interest in science but with no formal science training or you're an existing laboratory worker seeking a formal qualification.

Further study options Certificate IV in Laboratory Techniques.

Venue Southbank campus or workplace.



Pathology short courses

Certificate IV in Pathology (specialisation: collection)

WB FD

Course No	Duration	Entry criteria
HLT41807-1	12 weeks	Completion of pre-requisite units from Certificate III in Pathology (specialisation: collection). Hepatitis B immunisations are mandatory.

Career opportunities Pathology specimen collector, phlebotomist.

Description Gain further skills to support your role as a pathology specimen collector or phlebotomist. Gain hands on technical experience and in depth knowledge of advanced specimen collection procedures. This course delivers the practical skills you need to work with clients requiring specialised and technically difficult collection procedures.

Venue Southbank campus and workplace.

Certificate IV in Pathology (specialisation: pathology assistance)

WB FD

Course No	Duration	Entry criteria
HLT41807-2	12 weeks	Completion of pre-requisite units from Certificate III in Pathology (specialisation: pathology assistance). Hepatitis B immunisations are mandatory and year 10 or equivalent.

Career opportunities Pathology laboratory assistant, pathology technical assistant.

Description This certificate will support your role as a pathology laboratory assistant. Gain hands-on technical experience and in depth knowledge of advanced specimen processing. This course will give you the practical skills needed to work at an advance technical level in the pathology testing laboratory.

Venue Southbank campus and workplace.

Certificate III in Pathology (specialisation: collection)

WB FD

Course No	Duration	Entry criteria
HLT32607-3	8 weeks	Year 10 or equivalent. Hepatitis B immunisations are mandatory. Proven competence in English.

Career opportunities Pathology specimen collector, phlebotomist.

Description Throughout this course you will learn how to collect blood and other pathology samples for testing in the laboratory. Hands-on technical skills and background knowledge of specimen collection, preparation and transport requirements are all incorporated in this course.

Further study options Certificate IV in Pathology (specialisation: collection).

Venue Southbank campus and workplace.

Certificate III in Pathology (specialisation: pathology assistance)

WB FD

Course No	Duration	Entry criteria
HLT32607-3	8 weeks	Year 10 or equivalent. Hepatitis B immunisations are mandatory. Proven competence in English.

Career opportunities Pathology laboratory assistant.

Description Throughout this course you will learn how to prepare and process pathology samples for testing in the laboratory. Hands-on technical skills and background knowledge of specimen collection, transport, preparation and processing of samples for testing are incorporated in this course.

Further study options Certificate IV in Pathology (specialisation: pathology assistance).

Venue Southbank campus and workplace.





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 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.

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

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



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 or call 13 72 48.



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

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