

# Master of Surveying

+ Masters Degree  
+ Graduate Diploma

Experience. The Difference.



South Australia is currently experiencing a critical shortage of land surveying graduates. The shortage of graduates is Australia-wide and is destined to increase due to the retiring professional surveying population and an increase in development opportunities in the land, engineering and mining areas. On record, 100% of surveying students gain full-time employment within three months of graduation.

The Master of Surveying is designed to develop students who possess the theoretical background, professional ethics and practical skills necessary to undertake professional land surveying measurements and analysis.

- Supervising and coordinating the work of surveying associates and field assistants.

## What is Surveying?

Surveyors plan, direct and conduct survey work to determine and precisely position tracts of land, natural and constructed features and manage related information systems. A Surveyors tasks include:

- Determining the position of points of interest on the earth's surface, including the ocean bed and preparing the final product data in digital form;
- Supervising the preparation of plans, maps, charts and drawings to give pictorial representations and managing automated information systems;
- Undertaking research and development of surveying and other relevant systems;
- Planning and designing land sub-division projects and negotiating details with local governments and other authorities and representative bodies;
- Advising engineers, environmental and other scientists or other relevant professionals on the technical requirements of surveying, mapping and spatial information systems;

## What does it take?

Applicants should have a completed Bachelors degree in a related discipline from a recognised higher education institution or equivalent qualification. This degree will have strength in geospatial science and will reside in disciplines such as Geographical Information Systems, Science, Environmental Science, Natural Resource Management and Geography. Applicants must have passed university coursework with the following content:

- Maps and coordinate systems
- Introduction to geographical information systems
- Geographical information systems analysis and applications
- Remote Sensing
- Basic land surveying including GPS
- Introduction to environmental/Earth systems
- First year mathematics (preferably engineering mathematics)
- First year physics
- Introduction to urban planning



## What will I study?

The program comprises ten courses and requires the completion of 54 units over a two year period. An exit point is available at the successful completion of first year with the award of Graduate Diploma in Surveying.

Graduates of the Masters degree will find employment in the land boundary (cadastral) and engineering surveying areas. Students enrolling in the Masters degree will be eligible to enter into an agreement with the Surveyors Board SA to undertake training in cadastral surveying, which will lead to formal licensing by the Board.

Course name	Units
<b>FIRST YEAR (Full time)</b>	
<b>First Half (Study Period 2)</b>	
Advanced Surveying	4.5
Geodetic Science	4.5
Advanced Satellite Surveying	4.5
Land Law and Administration	4.5
<b>Second Half (Study Period 5)</b>	
Cadastral Surveying	4.5
Observation Analysis	4.5
Professional Practice and Ethics (Surveying)	4.5
Applications of Engineering Surveying	4.5
<b>SECOND YEAR (Part time)</b>	
<b>First Half (Study Period 2)</b>	
Spatial Science Research Project 1 <b>or</b>	9
Cadastral Surveying Project 1	9
<b>Second Half (Study Period 5)</b>	
Spatial Science Research Project 2 <b>or</b>	9
Cadastral Surveying Project 2	9

## Further Information

SATAC code **4CM085**  
UniSA program code **IMSG**

Program Length (in EFTSL): 1.5 years

Prerequisites:  
Bachelors degree in a related discipline from a recognised higher education institution or equivalent qualification

Home Campus:  
City East

Program Fees:  
Commonwealth Supported

School of Natural and Built Environments  
[unisa.edu.au/nbe](http://unisa.edu.au/nbe)

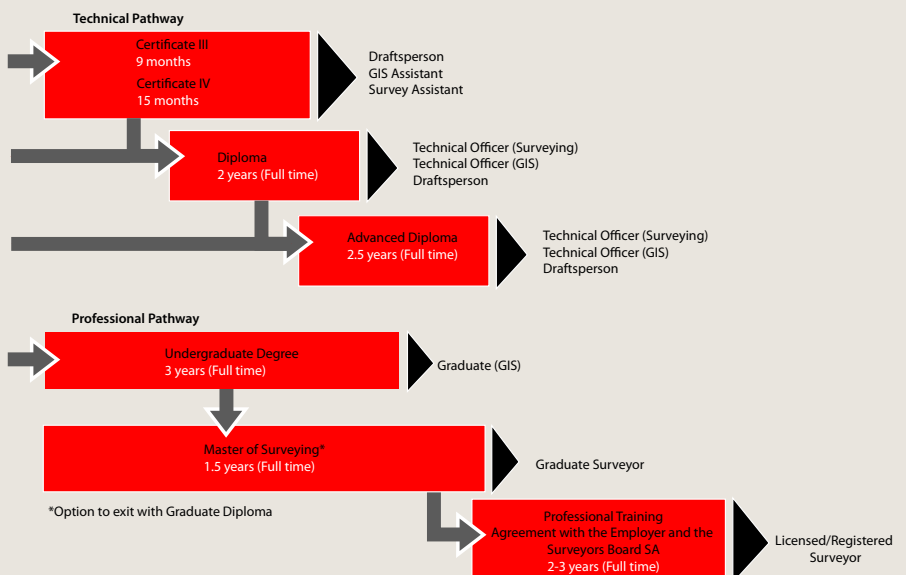
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The University of South Australia reserves the right to alter, amend or delete any program, fee, course, admission requirement, mode of delivery or other arrangement without prior notice.

Information correct as at September 2009.

CRICOS provider number 00121B

## Pathways to Surveying



For more information visit [alifewithoutlimits.com.au](http://alifewithoutlimits.com.au)

