### Bachelor of Surveying (Honours)/ Bachelor of Business

**Program Plan**

**Program Code:** 40077  
**CRICOS Code:** 093510G  
**CRICOS Provider:** 00109J

- **FULL TIME OR PART TIME:**
- **START DATE:** Semester 1, 2017 - 2020
- **LOCATION:** Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

### Program Handbook

**Course Handbook**

**Course Status Key**
- C = Completed
- En = Enrolled
- NS = Not Started

### Program Option:
- Full time or Part time

### Year 1

#### Semester 1
- **ENGG1500** Introduction to Professional Engineering
- **MATH1110** Mathematics for Engineering, Science and Technology 1
- **PHYS1205** Fundamentals of Engineering Physics
- **SURV1200** Introduction to Surveying

**Program Option:**
- Full time or Part time

**Start Date:** Semester 1, 2017 - 2020

**Location:** Callaghan

**Program Code:** 40077  
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### Program Handbook

**Course Handbook**

**Course Status Key**
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### Program Option:
- Full time or Part time

### Year 2

#### Semester 1
- **CIVL2040** Engineering Probabilities
- **CIVL2060** Numerical Methods
- **LEGL1001** Foundations of Law
- **MNGT1001** Introduction to Management
- **SURV2210** Engineering Surveying

#### Semester 2
- **CIVL1100** Fundamentals of Engineering Mechanics
- **ECON1001** Microeconomics for Business Decisions
- **ENGG1002** Introduction to Engineering Computations
- **MATH1120** Mathematics for Engineering, Science and Technology 2

### Year 3

#### Semester 1
- **LEGL2009** Survey and Engineering Law
- **SURV3350** Analysis of Observations
- **SURV3510** Geodesy 1

#### Semester 2
- **MAJOR 2000 LEVEL**
- **SURV3610** Photogrammetry
- **SURV3650** Spatial Data Systems and Remote Sensing

### Year 4

#### Semester 1
- **ACFI1001** Accounting for Decision Makers
- **CIVL4450** Water Engineering
- **SURV3930** Land Boundary Definition

#### Semester 2
- **SURV4730** Town Planning
- **SURV4850B# Project - Part B**
- **MAJOR 3000 LEVEL**

### Year 5

#### Semester 1
- **ENGG3500** Managing Engineering Projects
- **SURV4110** Industrial Surveying
- **SURV4410** Astronomy and Satellite Positioning
- **SURV4850A# Project - Part A**

#### Semester 2
- **CIVL2310** Fluid Mechanics
- **DIRECTED 1000 LEVEL**
- **SURV2220** Surveying Methods and Equipment
- **SURV2230** Surveying Techniques and Computations

### Year 6

#### Semester 1
- **ACFI1003** Introduction to Finance
- **CIVL4450** Water Engineering
- **SURV3930** Land Boundary Definition

#### Semester 2
- **SURV4730** Town Planning
- **SURV4850B# Project - Part B**
- **MAJOR 3000 LEVEL**

### Year 7

#### Semester 1
- **ACFI1003** Introduction to Finance
- **CIVL4450** Water Engineering
- **SURV3930** Land Boundary Definition

#### Semester 2
- **SURV4730** Town Planning
- **SURV4850B# Project - Part B**
- **MAJOR 3000 LEVEL**
To be eligible to graduate make sure you have completed 410 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 340 units
  * Enrolment in MATH courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the Enrolling in Maths information. More information in your Program Handbook.

- ** PHYS courses. Students may count PHYS1210 Advanced Physics 1 in lieu of PHYS1205 with Program Convenor approval.

- # Students can choose to complete both SURV4850A and SURV4850B (20 units over 2 semesters) OR SURV4850 (20 units in 1 semester OR Semester 2). Students who wish to choose SURV4850 must first obtain Program Convenor approval.

- Major – 70 units.
  - If you are undertaking the Leadership and Management major, you will complete the following:
    - 30 units of major compulsory courses; please see program handbook for compulsory course list
    - 40 units of directed courses (10 units at a 1000 level, 10 units at a 2000 level and 20 units at a 3000 level).
  - If you are undertaking the Entrepreneurship and Innovation major, you will complete the following:
    - 50 units of major compulsory courses; please see program handbook for compulsory course list
    - 20 units of directed courses (10 units at a 2000 level and 10 units at a 3000 level).

- Students must not exceed 120 units at 1000 level in this program.

- It is also a requirement that students complete a total of 12 weeks of industrial experience.

- The duration of this program is 5 years full time (40 units per semester) or part time equivalent.

- The maximum time to complete this program is 12 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook. Please refer to the Program Handbook for specific information on program structure. If you are intending varying from this program plan please seek advice from your Program Advisor.
### LEADERSHIP AND MANAGEMENT MAJOR

**COMPULSORY COURSES**
Complete 30 units from:
- MNGT2005 Leadership and Ethics
- MNGT3011 Leading Organisational Change
- MNGT3012 Strategic Business Management

**DIRECTED COURSES**
Complete 10 units from the following 1000 level Business directed courses:
- Note: MNGT1002 is Recommended
- IBUS1000 Managing International Business Risk
- IRHR1002 Dynamics of People and Work in Organisations
- LEIS1000 Leisure Behaviour and Organisation
- MNGT1002 Introduction to Entrepreneurship and Innovation
- POLI1010 Australian Politics and Government

**DIRECTED COURSES**
Complete 10 units from the following 2000 level Business directed courses:
- MNGT2002 Business Venturing
- MNGT2006 Decision Making Under Uncertainty

**DIRECTED COURSES**
Complete 20 units from the following 3000 level Business directed courses (Note: Students can only count one of BUSN3001, BUSN3002 or BUSN3500 towards the major):
- BUSN3001 Project in Business
- BUSN3002 Industry Placement
- BUSN3500 International Work Placement in Business
- MNGT3002 Knowledge Management
- MNGT3008 Advanced Innovation Management
- MNGT3009 Business Development and Growth

### ENTREPRENEURSHIP AND INNOVATION MAJOR

**COMPULSORY COURSES**
Complete 40 units from:
- MNGT1002 Introduction to Entrepreneurship and Innovation
- MNGT2003 Entrepreneurial and Innovation Diversity
- MNGT3006 Entrepreneurial Strategy (20 units)
- MNGT3007 Social Entrepreneurship

**DIRECTED COURSES**
Complete 10 units from the following 2000 level Business directed courses:
- MNGT2002 Business Venturing
- MNGT2004 Managing Innovations

**DIRECTED COURSES**
Complete 10 units from the following 3000 level Business directed courses:
- BUSN3002 Industry Placement
- MNGT3002 Knowledge Management
- MNGT3006 Advanced Innovation Management
- MNGT3009 Business Development and Growth