

# PROGRAM PLAN BACHELOR OF SURVEYING (HONOURS)

**PROGRAM OPTION:**  
Full time or Part time

**START DATE:**  
Semester 2, 2021

**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 Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

**NAME:**

**STUDENT NO.:**

## COURSE STATUS KEY

**C** = Completed

**En** = Enrolled

**NS** = Not Started

YEAR 1

<b>SEMESTER 2</b>	<b>CIVL1100</b> Fundamentals of Engineering Mechanics <b>CORE</b>	<b>MATH1110*</b> Mathematics for Engineering, Science and Technology 1 <b>CORE</b>	<b>PHYS1205**</b> Fundamentals of Engineering Physics <b>CORE</b>	<b>ELECTIVE PATHWAY</b>
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YEAR 2

<b>SEMESTER 1</b>	<b>ENGG1003</b> Introduction to Procedural Programming <b>CORE</b>	<b>ENGG1500</b> Introduction to Professional Engineering <b>CORE</b>	<b>MATH1120</b> Mathematics for Engineering, Science and Technology 2 <b>CORE</b>	<b>SURV1200</b> Introduction to Surveying <b>CORE</b>
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<b>SEMESTER 2</b>	<b>ENGG2300</b> Engineering Fluid Mechanics <b>CORE</b>	<b>ENGG2500</b> Sustainable Engineering Practice <b>CORE</b>	<b>ELECTIVE PATHWAY</b>	<b>ELECTIVE PATHWAY</b>
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YEAR 3

<b>SEMESTER 1</b>	<b>CIVL2060</b> Numerical Methods <b>CORE</b>	<b>ENGG2100</b> Engineering Risk & Uncertainty <b>CORE</b>	<b>LEGL2009</b> Survey and Engineering Law <b>CORE</b>	<b>SURV2210</b> Engineering Surveying <b>CORE</b>
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<b>SEMESTER 2</b>	<b>SURV2220</b> Surveying Methods and Equipment <b>CORE</b>	<b>SURV2230</b> Surveying Techniques and Computations <b>CORE</b>	<b>SURV3610</b> Photogrammetry <b>CORE</b>	<b>SURV3650</b> GIS and Remote Sensing <b>CORE</b>
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YEAR 4

<b>SEMESTER 1</b>	<b>ELECTIVE PATHWAY</b>	<b>CIVL4330</b> Hydrology <b>CORE</b>	<b>SURV3350</b> Analysis of Observations <b>CORE</b>	<b>SURV3510</b> Geodesy 1 <b>CORE</b>
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<b>SEMESTER 2</b>	<b>SURV4850A#</b> Project - Part A <b>CORE</b>	<b>CIVL4450</b> Water Engineering <b>CORE</b>	<b>SURV3930</b> Land Boundary Definition <b>CORE</b>	<b>SURV4730</b> Town Planning <b>CORE</b>
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YEAR 5

<b>SEMESTER 1</b>	<b>ENGG3500</b> Managing Engineering Projects <b>CORE</b>	<b>SURV4110</b> Industrial Surveying <b>CORE</b>	<b>SURV4410</b> Astronomy and Satellite Positioning <b>CORE</b>	<b>SURV4850B#</b> Project - Part B <i>This must be completed in the semester immediately following SURV4850A</i> <b>CORE</b>
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COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

# PROGRAM PLAN

## BACHELOR OF SURVEYING (HONOURS)

To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 280 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.
- Elective Pathway – 40 units, visit the [Program Handbook](#) for more information.
- 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 4 years full time (40 units per semester) or part time equivalent.
- The maximum time to complete this program is 10 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 [Academic Program Advisor](#).