

Bachelor of Electrical & Electronic Engineering (Honours)/ Bachelor of Computer Systems Engineering (Honours)

 **Commencing in Semester 2, 2017 to 2019**  **Studying at 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 prior advice from your [Program Advisor](#) to ensure you remain on track.

See the next page for some helpful hints & tips!







Semester 1

Year 1				
Year 2	ENGG1003 Introduction to Procedural Programming	ENGG1500 Introduction to Professional Engineering	MATH1120 Mathematics for Engineering, Science and Technology 2	SENG1110 Object Oriented Programming
Year 3	ENGG2500 Sustainable Engineering Practice	ELEC2320 Electrical and Electronic Circuits	ELEC2720 Introduction to Embedded Computing	ELECTIVE
Year 4	ENGG3500 Managing Engineering Projects	SENG2050 Web Engineering	ELEC3730 Digital and Computer Electronics 2	ELEC3130 Electric Machines and Power Systems
Year 5	ENGG3440 Linear Control and Estimation	DIRECTED Electrical & Electronic	ELECTIVE	ELECTIVE
Year 6	ELEC4840B Final Year Engineering Project Part B (20 units) <i>This course must be taken following ELEC4840A</i>		DIRECTED Computer Systems	ELECTIVE

Semester 2

ELEC1310 Introduction to Electrical Engineering	ELEC1710 Digital and Computer Electronics 1	MATH1110 * Mathematics for Engineering, Science and Technology 1	PHYS1210 Advanced Physics I
PHYS1220 Advanced Physics II	SENG1120 Data Structures	MATH2310 Calculus of Science and Engineering	STAT2110 Engineering Statistics
ELEC2132 Electric Energy Systems	ENGG2440 Modelling and Control	ELEC2430 Circuits and Signals	SENG2250 System and Network Security
ELEC3850 Electrical Engineering Design and Practice	ELEC3240 Analog Electronics	ELEC3540 Analog and Digital Communications	ELEC3500 Telecommunication Networks
ELEC4840A Final Year Engineering Project Part A	ENGG4500 Engineering Complexity	ELEC4720 Programmable Logic Design	DIRECTED Electrical & Electronic

Program Plan Key:  = Core  = Directed  = Elective
 = [Compulsory Program Requirement](#)

Professional Practice: Industrial Experience 12 weeks

To be eligible to graduate make sure you have completed 400 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

✓ Core courses – 330 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](#).

✓ Directed courses – 30 units, visit the [Program Handbook](#) for more information.

✓ Electives - 40 units, visit the [Course Handbook](#) for more information.

✓ 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](#).

The [Program Handbook](#) has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your [Program Advisor](#).

See the
next page
for a list of
Directed
courses

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Directed Courses

Subject to change - Please refer to the program handbook for up to date information.

Choose **20 units** from the **Electrical & Electronic** Directed Course List

PHYS2170	Quantum Mechanics and Semiconductor Physics
ELEC3160	Principles and Design of Off-Grid Power Systems
ELEC3251	Power Electronics and Renewable Energy Systems
ELEC3400	Signal Processing
PHYS3360	Advanced Electromagnetism
ELEC4100	Electrical Systems
ELEC4160	Advanced Drives and Power Electronics
ELEC4210	Electronics Design
ELEC4550	Wireless Communications
ELEC4700	Advanced Computer Systems
ENGG4440	Nonlinear Control and Estimation

Choose **10 units** from the **Computer Systems** Directed Course List

ELEC3400	Signal Processing
ELEC4210	Electronics Design
ELEC4700	Advanced Computer Systems
PHYS3360	Advanced Electromagnetism

Helpful Hints & Tips

ENROLMENT HELP



Need help? >>
Ask UON >>



How do I use the Web Timetable? >>

RULES

It is important to follow this Program Plan.
You cannot repeat a course you've passed to try and get a better grade.
You cannot enrol in any extra courses not required by your program >>

INFO FOR NEW STUDENTS



First year undergraduate students usually only enrol in 1000 level courses >>

New Postgraduate students should only enrol in 6000 level courses >>



Find out all you need to know about getting started at uni >>

UNDERSTANDING COURSES & PROGRAMS



Not sure what courses to study? >>



Understanding program and course jargon >>



Understanding UON Jargon >>

PRIOR STUDY



Check you have met the assumed knowledge and prerequisites for courses before enrolling >>



Have you studied elsewhere or transferred programs? Don't forget to apply for credit >>

CONSIDERING A BREAK?



Need to take a break? This is called a 'leave of absence'. Check if you are eligible >>



Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies >>



UON offers a range of support services to assist with your health and wellbeing >>

MORE QUESTIONS?

We are here to answer questions about your program. Talk to us your way!

- Ask UON
- 1300 ASK UON
- Visit Student Central
- Message us on Facebook
- or Twitter
- UONline via myUON