

PROGRAM PLAN

BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING (HONOURS) / BACHELOR OF BUSINESS

PROGRAM OPTION:
Commencing in Semester 2

START DATE:
2017 to 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 Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

YEAR	SEMESTER	COURSE	DESCRIPTION	LEVEL
YEAR 1	SEMESTER 1	ELEC1710	Digital and Computer Electronics 1	CORE
		MATH1110	Maths for Engineering, Science & Technology 1 <i>(Replaces option of MATH1110 OR MATH1210)</i>	CORE
	SEMESTER 2	PHYS1210	Advanced Physics I	CORE
		ACFI1001	Accounting for Decision Makers	CORE
YEAR 2	SEMESTER 1	ENGG1500	Introduction to Professional Engineering	CORE
		ENGG1003	Introduction to Procedural Programming	CORE
	SEMESTER 2	MATH1120	Maths for Engineering, Science & Technology 2 <i>(Replaces option of MATH1120 OR MATH1220)</i>	CORE
		MNGT1001	Introduction to Management	CORE
YEAR 3	SEMESTER 1	STAT2110	Engineering Statistics <i>In 2021 changed from Sem 2 to Sem 1</i> Replaces MATH2420	CORE
		ELEC2320	Electrical and Electronic Circuits	CORE
	SEMESTER 2	LEGL1001	Foundations of Law	CORE
		MKTG1001	Foundations of Marketing	CORE
YEAR 4	SEMESTER 1	ENGG3500	Managing Engineering Projects	CORE
		ELEC3130	Electric Machines and Power Systems	CORE
	SEMESTER 2	ELEC2720	Introduction to Embedded Computing Replaces ELEC2700 Replaces ELEC3730	CORE
		ECON1001	Microeconomics for Business Decisions	CORE
YEAR 5	SEMESTER 1	ELEC3410	Control System Design <i>From 2021 ELEC3410 will count in place of ENGG3440</i>	CORE
		ACFI1003	Introduction to Finance	CORE
	SEMESTER 2	MAJOR	B Business 3000 Level	MAJOR
		MAJOR	B Business 3000 Level	MAJOR
YEAR 6	SEMESTER 1	ELEC4840B	Final Year Engineering Project Part B <i>This course must be taken following ELEC4840A (20 units)</i>	CORE
		MAJOR	B Business 3000 Level	MAJOR
	SEMESTER 2	ELEC4840A	Final Year Engineering Project Part A	CORE
		ELECTIVE	ELECTIVE	ELECTIVE

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

PROGRAM PLAN

BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING (HONOURS) / BACHELOR OF BUSINESS

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** – 310 units.

Math courses - Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#).

Prior to 2021, students could choose to complete either MATH1110 and MATH1120, **OR** MATH1210 and MATH1220. Note that due to course offerings it is recommended midyear commencing students take MATH1110 and MATH1120, and that you also consider the University's [Summer School](#) offerings following your first semester.

After 2021, the option to do MATH1210 and MATH1220 has been removed from the program. **From 2021 onwards**: 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120.

- **Directed courses** – 10 units.

If you have already completed ELEC3850, please note this will count as 10 units of Directed courses. Refer to the transition document in the [Program Handbook](#) for further information.

- **Major Courses** – 70 units.

Students may complete either the Leadership and Management or the Entrepreneurship and Innovation major for the Bachelor of Business. Refer to the [Program Handbook](#) for the list of major courses.

- **Electives** – 10 units.

Students who do not meet the enrolment requisite for MATH1110 must take MATH1002 Foundational Studies in Mathematics. For these students MATH1002 will count for 10 units of electives. Visit the [Program 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.

IMPORTANT: Refer to the transition document in the [Program Handbook](#) for further information.



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](#).

PROGRAM PLAN

BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING (HONOURS) / BACHELOR OF BUSINESS

LEADERSHIP AND MANAGEMENT MAJOR

Major for the Bachelor of Business

COMPULSORY COURSES

Complete the following:

MNGT2005 Leadership and Ethics
MNGT3011 Leading Organisational Change
MNGT3012 Strategic Business Management

DIRECTED COURSES

Complete 10 units from:

MNGT1002 Introduction to Entrepreneurship and Innovation
IBUS1000 Managing International Business Risk
IRHR1002 Dynamics of People and Work in Organisations
LEIS1000 Leisure Behaviour and Organisation
POLI1010 Australian Politics and Government

DIRECTED COURSES

Complete 10 units from:

MNGT2002 Business Venturing
MNGT2006 Decision Making under Uncertainty

DIRECTED COURSES

Complete 20 units from:

MNGT3002 Knowledge Management
MNGT3008 Advanced Innovation Management
MNGT3009 Business Development and Growth

BUSN3001 Project in Business
OR
BUSN3500 International Work Placement in Business
OR
BUSN3002 Industry Placement

DIRECTED COURSES

If you have not completed **ELEC3850**, select 10 units. Refer to the transition document in the [Program Handbook](#) for further information.

ELEC3160 Principles and Design of Off-Grid Power Systems
ELEC3251 Power Electronics and Renewable Energy Systems
ELEC3400 Signal Processing
ELEC3500 Telecommunication Networks
ELEC3730 Digital and Computer Electronics 2
ELEC4100 Electrical Systems

ENTREPRENEURSHIP AND INNOVATION MAJOR

Major for the Bachelor of Business

This major was revised in 2020. Please refer to the transition document in the [Program Handbook](#) for further information.

COMPULSORY COURSES

Complete the following:

MNGT1002 Introduction to Entrepreneurship and Innovation
MNGT2002 Business Venturing
MNGT2007 Ideation in Enterprise
MNGT3016 Innovation and Entrepreneurial Strategy

DIRECTED COURSES

Complete 10 units from:

MNGT2004 Managing Innovation
MNGT2006 Decision Making under Uncertainty

DIRECTED COURSES

Complete 20 units from:

MNGT3002 Knowledge Management
MNGT3007 Social Entrepreneurship
MNGT3008 Advanced Innovation Management
MNGT3009 Business Development and Growth
BUSN3002: Industry Placement

ELEC4160 Advanced Drives and Power Electronics
ELEC4210 Electronics Design
ELEC4720 Programmable Logic Design
ELEC4740 Internet of Things
ENGG4440 Nonlinear Control and Estimation
PHYS2211 Modern Physics 1