

PROGRAM PLAN

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

PROGRAM OPTION:
Commencing in Semester 1

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 1	SEMIESTER 1 ENGG1500 Introduction to Professional Engineering CORE	ENGG1003 Introduction to Procedural Programming CORE	MATH1110 Maths for Engineering, Science & Technology 1 <i>(Replaces option of MATH1110 OR MATH1210)</i> CORE	PHYS1210 Advanced Physics I CORE	SEMIESTER 2 ELEC1310 Introduction to Electrical Engineering CORE	MATH1120 Maths for Engineering, Science & Technology 2 <i>(Replaces option of MATH1120 OR MATH1220)</i> CORE	PHYS1220 Advanced Physics II CORE	ECON1001 Microeconomics for Business Decisions CORE
	SEMIESTER 1 STAT2110 Engineering Statistics <i>In 2021 changed from Sem 2 to Sem 1</i> CORE	ELEC2320 Electrical and Electronic Circuits CORE	MATH2310 Calculus of Science and Engineering CORE	MNGT1001 Introduction to Management CORE	SEMIESTER 2 ELEC1710 Digital and Computer Electronics 1 CORE	ELEC2132 Electric Energy Systems CORE	ELEC2430 Circuits and Signals CORE	MAJOR B Business 1000 Level MAJOR
YEAR 3	SEMIESTER 1 ENGG3500 Managing Engineering Projects CORE	ELEC3130 Electric Machines and Power Systems CORE	ELEC2720 Introduction to Embedded Computing Replaces ELEC2700 Replaces ELEC3730 CORE	MAJOR B Business 2000 Level MAJOR	SEMIESTER 2 ENGG2440 Modelling and Control CORE	ENGG2500 Sustainable Engineering Practice <i>In 2021 changed from Sem1 to Sem 2</i> CORE	ACFI1001 Accounting for Decision Makers CORE	MAJOR B Business 2000 Level MAJOR
	SEMIESTER 1 ELEC3410 Control System Design <i>From 2021 ELEC3410 will count in place of ENGG3440</i> CORE	MKTG1001 Foundations of Marketing CORE	ACFI1003 Introduction to Finance CORE	LEGL1001 Foundations of Law CORE	SEMIESTER 2 ELEC3540 Analog and Digital Communications CORE	ELEC3240 Analog Electronics CORE	ENGG4500 Engineering Complexity CORE	DIRECTED <i>From 2021, 10 units of Directed courses will count in place of ELEC3850</i> DIRECTED
YEAR 5	SEMIESTER 1 ELEC4840A Final Year Engineering Project Part A CORE	MAJOR B Business 3000 Level MAJOR	MAJOR B Business 3000 Level MAJOR	ELECTIVE ELECTIVE	SEMIESTER 2 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	MAJOR B Business 3000 Level MAJOR	

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

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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](#).

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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