CHECKLIST Bachelor of Engineering (Honours) Electrical Engineering Specialisation: Transition to new program (commencing 2024)

***** This checklist is for the BE(Hons) component for dual programs with Bachelor of Arts, Bachelor of Business Management, Bachelor of Commerce, Bachelor of Design, Bachelor of Economics, Bachelor of Information Technology

Important Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the Programs and Courses Website relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.
- Please contact the relevant Faculty for information regarding the other component of your dual program.

For the BE(Hons) component, with a specialisation in Electrical Engineering:

(a) 56 units from the BE(Hons) component, comprising—

(i) 8 units for BE(Hons) core courses, and

(ii) 36 units for a BE(Hons) Electrical Engineering specialisation

i) 34 units for all Electrical Engineering Compulsory Courses, and

ii) 2 units from BE(Hons) Program Elective Courses

(iii) 2 units for all Electrical Engineering Extension Course, and

(iv) 6 to 10 units from Electrical Engineering Advanced Elective Courses, and

(v) 0 to 4 units from Electrical Engineering Breadth Elective Courses

✓/x compl.	BE(Hons) Core Courses (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all Core Courses					
	ENGG1100 Professional Engineering	1,2	2		Course must be completed [ENGG1211 (4 units) will count as 2 units towards Part A in lieu of ENGG1100, and 2 units towards program electives]	
	ENGG1001 Programming for Engineers **or** **CSSE1001** Introduction to Software Engineering	1,2	2		Course must be completed	
	MATH1051 Calculus & Linear Algebra I **or** **MATH1071** Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **or** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		Course must be completed	

Specialisation in **Electrical Engineering**

Once you have completed the BE(Hons)/Bxx Transition Plan – Electrical Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

Complete 48 units comprising:

i. 36 units for one Specialisation from Electrical Engineering, and
   i) 34 units for all Electrical Engineering Compulsory Courses, and
   ii) 2 units from BE(Hons) Program Elective Courses
ii. 2 units for all Electrical Engineering Extension Course, and
iii. 6 to 10 units from Electrical Engineering Advanced Elective Courses, and
iv. 0 to 4 units from Electrical Engineering Breadth Elective Courses

✓/x compl.	Electrical Engineering Specialisation (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
	34 units for all Compulsory Courses					
	ENGG1300 Introduction to Electrical Systems	1,2	2		Course must be completed	
	CSSE2010 Introduction to Computer Systems	1,2	2		Course must be completed	
	CSSE2310 Computer Systems, Principles and Programming	1,2	2		Course must be completed	
	ELEC2004 Circuits, Signals and Systems	2	2		Course must be completed	
	ELEC2300 Electromagnetism and Electromechanics	1	2		**ELEC2003** Electromechanics & Electronics (discontinued)	**1/21**
	ELEC2400 Electronic Devices and Circuits	1	2		**ELEC3400** Electronic Circuits (discontinued)	**1/21**
	ENGG2800 Team Project I	1,2	2		Course must be completed	
	MATH2001 Calculus & Linear Algebra II	1,2,S	2		**MATH2001** Advanced Calculus & Linear Algebra II	
	MATH2010 Analysis of Ordinary Differential Equations (1)	1,2	1		Course must be completed	
	STAT2201 Probability Models and Data Analysis for Engineering (1)	1,2	1		**STAT2202** Probability Models for Engineering & Science (discontinued)	**2/20**
	CSSE3010 Embedded Systems Design & Interfacing	1	2		Course must be completed	
	ELEC3004 Signals, Systems & Control	1	2		Course must be completed	
	ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2	2		Course must be completed	
	ENGG3800 Team Project II	2	2		Course must be completed	
	ENGG4901 Professional Practice and the Business Environment A **Or** **ENGG4902** Professional Practice and the Business Environment A	1,2	2		Course must be completed	
	METR4201 Control Engineering I	1	2		Course must be completed	
	REIT4841 Research and Development Methods and Practice (NEW) (4) **or** **REIT4842** Research and Development Methods and Practice (NEW) (4)	1 2	4		**ENGG4801** Thesis Project (discontinued) / **ENGG4811** (from 1/21) **or** **ENGG4802** Thesis Project (discontinued) / **ENGG4812** (from 2/21)	**1/21** **2/21**

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	2 units from Program Electives					

	2 units for Electrical Engineering Extension Course					
	ELEC3310 Electrical Energy Conversion & Utilisation	2	2		**ELEC3300** Electrical Energy Conversion & Utilisation (discontinued)	**2/20**

	6 to 10 units from any Electrical Engineering Advanced Electives					
	COMS4113 Photonics	1	2		**COMS4103** Photonics (discontinued)	**1/20**
	COMS4104 Microwave Engineering	1	2		No substitution	
	COMS4105 Communication Systems	2	2		No substitution	
	CSSE4010 Digital System Design	2	2		No substitution	
	ELEC4310 Power Systems Analysis	1	2		**ELEC4300** Power Systems Analysis (discontinued)	**1/20**
	ELEC4410 Advanced Electronic & Power Electronics Design	2	2		**ELEC4400** Advanced Electronic & Power Electronics Design (discontinued)	**2/20**
	ELEC4620 Digital Signal Processing	2	2		No substitution	
	ELEC4630 Computer Vision and Deep Learning	1	2		No substitution	
	METR4202 Robotics & Automation	2	2		No substitution	
	METR6203 Control Engineering 2	2	2		**METR7203** Control Engineering 2 (discontinued)	**2/20**

	0 to 4 units from any Electrical Engineering Breadth Electives					
	ELEC4302 Power System Protection	2	2		No substitution	
	ELEC4320 Modern Asset Management and Condition Monitoring in Power System	2	2		No substitution	
	ENGG4020 Systems Safety Engineering	2	2		No substitution	
	Electrical Engineering Breadth Electives can also be chosen from course lists for the following majors: o Biomedical Engineering o Computer Engineering *Courses on this list may require pre-requisites. Please seek academic advice if required.*					

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