

# CHECKLIST Bachelor of Engineering (Honours) – Electrical Engineering (2342): Completion of pre-2021 program

## 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.

You must complete for the BE(Hons) (Electrical Engineering) - a Single Major (Plan code: ELECTX2342), or Extended Major (Plan code: ELECTY2342), or Major & Minor; 64 units comprising -

- a major - 52 units, comprising-
  - 46 units, being all courses from [part A](#) (listed below); and
  - 6 units from [part B](#) - advanced electives; and; and
- 12 units from electives
  - a minimum of 4 units from courses on the BE(Hons) list, other than courses on the BE Year 1 part D list, and
  - a maximum of 4 units from courses on the BE(Hons) Year 1 part D list, and
  - a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- an extended major - 60 units, comprising-
  - 46 units, being all courses from [part A](#) - compulsory; and
  - 14 units from the combination of [part B](#) and [part C](#) electives, (with a minimum of 8 units from part B); and
- 4 units from electives.

## PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/✗ compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
46 units, being all courses from Part A - Compulsory							
	ENGG1100 Engineering Design (2) and ENGG1200 Engineering Modelling & Problem Solving (2) (discontinued) OR ENGG1211 Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	 2/20 2/20	ENGG1100 Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2	2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers	1,2 1,2	2	1/21
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2	
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	2	2	

Once you have completed the BE(Hons) Transition Plan – Electrical Engineering continuation checklist, you may either email your checklist to the Faculty on [enquiries@eait.uq.edu.au](mailto:enquiries@eait.uq.edu.au) or book an appointment with an Academic Advisor directly.

	<b>CSSE2010</b> Introduction to Computer Systems	2		<b>CSSE2010</b> Introduction to Computer Systems	1,2	2	
	<b>ELEC2003</b> Electromechanics & Electronics (discontinued)	2	<b>1/21</b>	<b>ELEC2300</b> Fundamentals of Electromagnetism & Electromechanics	1	2	<b>1/22</b>
	<b>MATH2001</b> Advanced Calculus & Linear Algebra II	2		<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>CSSE2310</b> Computer Systems Principles and Programming	2		<b>CSSE2310</b> Computer Systems Principles and Programming	1,2	2	
	<b>ELEC2004</b> Circuits, Signals & Systems	2		<b>ELEC2004</b> Circuits, Signals & Systems	2	2	
	<b>ENGG2800</b> Team Project I	2		<b>ENGG2800</b> Team Project I	1,2	2	
	<b>MATH2010</b> Analysis of Ordinary Differential Equations AND <b>STAT2202</b> Probability Models for Engineering & Science (discontinued)	1 1	<b>2/20</b>	<b>MATH2010</b> Analysis of Ordinary Differential Equations AND <b>STAT2201</b> Analysis of Eng. & Scientific Data (1) or <b>STAT2203</b> Probability Models and Data Analysis for Engineering (2)	1,2 1,2 2	1 1 2	
	<b>CSSE3010</b> Embedded Systems Design & Interfacing	2		<b>CSSE3010</b> Embedded Systems Design & Interfacing	1	2	
	<b>ELEC3004</b> Signals, Systems & Control	2		<b>ELEC3004</b> Circuits, Signals and Systems	1	2	
	<b>ELEC3400</b> Electronic Circuits (discontinued)	2	<b>1/21</b>	<b>ELEC2400</b> Electronic Devices & Circuits	1	2	<b>1/22</b>
	<b>ELEC3100</b> Fundamentals of Electromagnetic Fields & Waves	2		<b>ELEC3100</b> Fundamentals of Electromagnetic Fields & Waves	2	2	
	<b>ELEC3300</b> Electrical Energy Conversion & Utilisation (discontinued)	2	<b>2/20</b>	<b>ELEC3310</b> Electrical Energy Conversion & Utilisation	2	2	<b>2/21</b>
	<b>ENGG3800</b> Team Project II	2		<b>ENGG3800</b> Team Project II	2	2	
	<b>ENGG4801</b> Thesis Project (discontinued) / <b>ENGG4811</b> (from 1/22) or <b>ENGG4802</b> Thesis Project (discontinued) / <b>ENGG4812</b> (from 2/22) or <b>ENGG4805</b> Thesis Project	4	<b>1/22</b> <b>2/22</b>	<b>REIT4841</b> Research and Development Methods and Practice or <b>REIT4842</b> Research and Development Methods and Practice or <b>ENGG4805</b> Thesis Project	1 2 1,2	4	<b>1/23</b> <b>2/23</b>
	<b>ENGG4900</b> Professional Practice and the Business Environment (discontinued)	2	<b>2/23</b>	<b>ENGG4901</b> Professional Practice and the Business Environment A Or <b>ENGG4902</b> Professional Practice and the Business Environment B	1,2	2	<b>1/24</b>

**PART B**

✓/X compl.	Part B – Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>COMS4103</b> Photonics (discontinued)	2	1/20	<b>COMS4113</b> Photonics	1	2	1/21
	<b>COMS4104</b> Microwave Engineering	2		<b>COMS4104</b> Microwave Engineering	1	2	
	<b>COMS4105</b> Communication Systems	2		<b>COMS4105</b> Communication Systems	2	2	
	<b>CSSE4010</b> Digital System Design	2		<b>CSSE4010</b> Digital System Design	2	2	
	<b>ELEC4300</b> Power Systems Analysis (discontinued)	2	1/20	<b>ELEC4310</b> Power Systems Analysis	1	2	1/21
	<b>ELEC4400</b> Advanced Electronic & Power Electronics Design (discontinued)	2	2/20	<b>ELEC4410</b> Advanced Electronic & Power Electronics Design	2	2	2/21
	<b>ELEC4620</b> Digital Signal Processing	2		<b>ELEC4620</b> Digital Signal Processing	2	2	
	<b>ELEC4630</b> Image Processing and Computer Vision	2		<b>ELEC4630</b> Image Processing and Computer Vision	1	2	
	<b>METR4201</b> Control Engineering 1	2		<b>METR4201</b> Control Engineering 1	1	2	
	<b>METR4202</b> Robotics & Automation	2		<b>METR4202</b> Robotics & Automation	2	2	

**PART C**

✓/X compl.	Part C - Coverage Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>COMP3702</b> Artificial Intelligence	2		<b>COMP3702</b> Artificial Intelligence	2	2	
	<b>COMP3710</b> Pattern Recognition and Analysis	2		<b>COMP3710</b> Pattern Recognition and Analysis	2	2	
	<b>COMP4702</b> Machine Learning	2		<b>COMP4702</b> Machine Learning	2	2	
	<b>COMS3200</b> Computer Networks I	2		<b>COMS3200</b> Computer Networks I	1	2	
	<b>COMS4200</b> Computer Networks II (discontinued)	2	2/20	<b>COMS6200</b> Computer Networks II	2	2	2/21
	<b>CSSE2002</b> Programming in the Large	2		<b>CSSE2002</b> Programming in the Large	1,2	2	
	<b>CSSE4011</b> Advanced Embedded Systems	2		<b>CSSE4011</b> Advanced Embedded Systems	1	2	
	<b>ELEC4000</b> Special Topics in Electrical Engineering 4A	2		<b>ELEC4000</b> Special Topics in Electrical Engineering 4A	1,2	2	
	<b>ELEC4001</b> Special Topics in Electrical Engineering 4B	2		<b>ELEC4001</b> Special Topics in Electrical Engineering 4B	1,2	2	

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	<b>ELEC4302</b> Power System Protection	2		<b>ELEC4302</b> Power System Protection	2	2	
	<b>ELEC4320</b> Modern Asset Management and Condition Monitoring in Power System	2		<b>ELEC4320</b> Modern Asset Management and Condition Monitoring in Power System	2	2	
	<b>ELEC6403</b> Biomedical Instrumentation (discontinued)	2	<b>2/20</b>	<b>BIOE6403</b> Biomedical Instrumentation	2	2	<b>2/21</b>
	<b>ELEC6601</b> Medical Imaging (discontinued)	2	<b>2/20</b>	<b>BIOE6601</b> Medical Imaging	2	2	<b>2/21</b>
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics (discontinued)	2	<b>2/20</b>	<b>ENGG1700</b> Statics and Materials	1,2	2	<b>1/21</b>
	<b>ENGG2000</b> Humanitarian Engineering	2		<b>ENGG2000</b> Humanitarian Engineering	2	2	
	<b>ENGG4800</b> Project Management	2		<b>ENGG4800</b> Project Management	1	2	