

# CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Electrical & Computer Engineering (2350): Completion of pre-2021 program

Full name: \_\_\_\_\_ Student Number: \_\_\_\_\_ Date: \_\_\_\_\_

## Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites have been met

You must complete for the BE(Hons)/ME (Electrical & Computer Engineering Plan code: ELECEX2350), 80 units comprising -

1. 60 units from part A - compulsory (listed below), and
2. 16 units from the combination of parts B, C, and N - electives, with
  - (i) a minimum of 8 units from part B (including at least 4 units at level four), and
  - (ii) a minimum of 4 units from part N, and
3. 4 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with:

## PART A

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

✓/X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	60 units 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 * Please contact EAIT Student Admin for ENGG1200 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 (NEW)	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)	1,2	2		
	CSSE2002 Programming in the Large	2		CSSE2002 Programming in the Large	1,2	2		
	CSSE2010 Introduction to Computer Systems	2		CSSE2010 Introduction to Computer Systems	1,2	2		
	ELEC2003 Electromechanics & Electronics (discontinued)	2	1/21	ELEC2300 Fundamentals of Electromagnetism & Electromechanics NEW	1	2	1/22	
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2,S	2		
	CSSE2310 Computer Systems Principles and Programming	2		CSSE2310 Computer Systems Principles and Programming	1,2	2		

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): \_\_\_\_\_

ELEC2004 Circuits, Signals & Systems	2		ELEC2004 Circuits, Signals & Systems	2	2		
ENGG2800 Team Project I	2		ENGG2800 Team Project I	1,2	2		
MATH2010 Analysis of Ordinary Differential Equations AND STAT2202 Probability Models for Engineering & Science (discontinued)	1 1	2/20	MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Eng. & Scientific Data (1) or STAT2203 Probability Models and Data Analysis for Engineering (2)	1,2 1,2 2	1 1 2		
CSSE3010 Embedded Systems Design & Interfacing	2		CSSE3010 Embedded Systems Design & Interfacing	1,2	2		
ELEC3004 Signals, Systems & Control	2		ELEC3004 Circuits, Signals and Systems	1	2		
ELEC3400 Electronic Circuits (discontinued)	2	1/21	ELEC2400 Electronic Devices & Circuits (NEW)	1	2	1/22	
CSSE4010 Digital System Design	2		CSSE4010 Digital System Design	1,2	2		
ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2		ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2	2		
ENGG3800 Team Project II	2		ENGG3800 Team Project II	2	2		
CSSE4011 Advanced Embedded Systems	2		CSSE4011 Advanced Embedded Systems	1	2		
ENGG4900 Professional Practice and the Business Environment	2		ENGG4900 Professional Practice and the Business Environment	1,2	2		
COMP3506 Algorithms & Data Structures	2		COMP3506 Algorithms & Data Structures	2	2		
CSSE7610 Concurrency: Theory and Practice	2		CSSE7610 Concurrency: Theory and Practice	2	2		
ENGG7290 Engineering Placement Semester	8		ENGG7290 Engineering Placement Semester	1,2	8		
ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2		
16 units from the combination of parts B,C, and N - electives			16 units from the combination of parts B,C, and N - electives				
Part A units completed pre-2021:			Part A units to be substituted/completed:				
			Total Part A (must add up to 60 units):				

## PART B

✓/X compl.	Part B - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	COMP3301 Operating Systems Architecture	2		COMP3301 Operating Systems Architecture	2	2		
	COMP3506 Algorithms & Data Structures	2		COMP3506 Algorithms & Data Structures	2	2		
	COMP3702 Artificial Intelligence	2		COMP3702 Artificial Intelligence	2	2		
	COMP3710 Pattern Recognition and Analysis	2		COMP3710 Pattern Recognition and Analysis	2	2		
	COMP4702 Machine Learning	2		COMP4702 Machine Learning	2	2		
	COMS3000 Information Security (discontinued)	2	2/20	CYBR3000 Information Security	2	2	2/21	

Once you have completed the checklist, you may either email your checklist to the Faculty on [enquiries@eit.uq.edu.au](mailto:enquiries@eit.uq.edu.au) or book an appointment with an Academic Advisor directly.

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Checked by (Faculty: Name and Date): \_\_\_\_\_

	COMS3200 Computer Networks I	2		COMS3200 Computer Networks I	1	2		
	COMS4103 Photonics (discontinued)	2	1/20	COMS4113 Photonics	1	2	1/21	
	COMS4104 Microwave Engineering	2		COMS4104 Microwave Engineering	1	2		
	COMS4105 Communication Systems	2		COMS4105 Communication Systems	2	2		
	COMS4200 Computer Networks II (discontinued)	2	2/20	COMS6200 Computer Networks II	2	2	2/21	
	COMS4507 Advanced Topics in Security	2		COMS4507 Advanced Topics in Security	1	2		
	CSSE4004 Distributed Computing (discontinued)	2		CSSE6400 Software Architecture (NEW)	1	2		
	CSSE4010 Digital System Design	2		CSSE4010 Digital System Design	2	2		
	DECO1400 Introduction to Web Design	2		DECO1400 Introduction to Web Design	1	2		
	DECO2500 Human-Computer Interaction	2		DECO2500 Human-Computer Interaction	1,2	2		
	ELEC3300 Electrical Energy Conversion & Utilisation (discontinued)	2	2/20	ELEC3310 Electrical Energy Conversion & Utilisation	2	2	2/21	
	ELEC4300 Power Systems Analysis (discontinued)	2	1/20	ELEC4310 Power Systems Analysis	1	2	1/21	
	ELEC4400 Advanced Electronic & Power Electronics Design (discontinued)	2	2/20	ELEC4410 Advanced Electronic & Power Electronics Design	2	2	2/21	
	ELEC4620 Digital Signal Processing	2		ELEC4620 Digital Signal Processing	2	2		
	ELEC4630 Image Processing and Computer Vision	2		ELEC4630 Image Processing and Computer Vision	1	2		
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	2	2		
	ENGG4800 Project Management	2		ENGG4800 Project Management	2	2		
	INFS1200 Introduction to Information Systems	2		INFS1200 Introduction to Information Systems	1,2	2		
	INFS2200 Relational Database Systems	2		INFS2200 Relational Database Systems	2	2		
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1	1	2		
	METR4202 Robotics & Automation	2		METR4202 Robotics & Automation	2	2		

✓/X compl.	Part C - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	COMP4403 Compilers and Interpreters	2		COMP4403 Compilers and Interpreters	1	2		
	COMP4500 Advanced Algorithms & Data Structures	2		COMP4500 Advanced Algorithms & Data Structures	2	2		
	COSC3000 Visualization, Computer Graphics & Data Analysis	2		COSC3000 Visualization, Computer Graphics & Data Analysis	1	2		

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	COSC3500 High Performance Computing	2		COSC3500 High Performance Computing	2	2		
	CSSE3002 The Software Process (discontinued)	2	1/20	CSSE3012 The Software Process	1	2	1/21	
	CSSE3100 Reasoning About Programs	2		CSSE3100 Reasoning About Programs	1	2		
	DECO2800 Design Computing Studio 2 – Testing & Evaluation (discontinued)	2	2/21	CSSE3200 Software Engineering Studio: Design, Implement & Test (NEW)	2	2	2/22	
	DECO3500 Social & Mobile Computing	2		DECO3500 Social & Mobile Computing	2	2		
	DECO3800 Design Computing Studio 3 - Proposal	2		DECO3800 Design Computing Studio 3 - Proposal	1	2		
	DECO3801 Design Computing Studio 3 - Build	2		DECO3801 Design Computing Studio 3 - Build	2	2		
	ENGG4020 Systems Safety Engineering	2		ENGG4020 Systems Safety Engineering	2	2		
	INFS3200 Advanced Database Systems	2		INFS3200 Advanced Database Systems	1,2	2		
	INFS3202 Web Information Systems	2		INFS3202 Web Information Systems	1	2		
	INFS3208 Cloud Computing	2		INFS3208 Cloud Computing	2	2		
	INFS4203 Data Mining	2		INFS4203 Data Mining	2	2		
	INFS4205 Advanced Techniques for High Dimensional Data	2		INFS4205 Advanced Techniques for High Dimensional Data	1	2		

✓/X compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	COMS7305 Advanced Microwave Engineering	2		COMS7305 Advanced Microwave Engineering	2	2		
	COMS7307 Advanced Photonics (discontinued)	2	2021	COMS7307 Advanced Photonics (discontinued)	2	2		
	COMS7309 Computational Techniques in Electromagnetics	2		COMS7309 Computational Techniques in Electromagnetics	2	2		
	ELEC7901 Advanced Medical Device Engineering (discontinued)	2	1/20	BIOE6901 Medical Device Engineering	1	2	1/21	
	ELEC7902 Biomedical Signal Processing (discontinued)	2	2/20	BIOE7902 Biomedical Signal Processing	2	2	2/21	
	ENGG7302 Advanced Computational Techniques in Engineering	2		ENGG7302 Advanced Computational Techniques in Engineering	2	2		
	ENGG7811 Research Methods	2		ENGG7811 Research Methods	2	2		
	INFS7410 Information Retrieval and Web Search	2		INFS7410 Information Retrieval and Web Search	2	2		

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Checked by (Faculty: Name and Date): \_\_\_\_\_

	<b>METR7203 Control Engineering 2 (discontinued)</b>	2	<b>1/20</b>	<b>METR6203 Control Engineering 2</b>	2	2	<b>1/21</b>	
	<b>Courses offered on an occasional basis</b>							
	<b>COMS7000</b> Advanced Topics in Communications I	2		<b>COMS7000</b> Advanced Topics in Communications I	1,2	2		
	<b>CSSE7080</b> Advanced Topics in Computer Systems A	2		<b>CSSE7080</b> Advanced Topics in Computer Systems A	1,2	2		
	<b>CSSE7081</b> Advanced Topics in Computer Systems B	2		<b>CSSE7081</b> Advanced Topics in Computer Systems B	1,2	2		
	<b>CSSE7090</b> Advanced Topics in Software Engineering A	2		<b>CSSE7090</b> Advanced Topics in Software Engineering A	1,2	2		
	<b>CSSE7091</b> Advanced Topics in Software Engineering B	2		<b>CSSE7091</b> Advanced Topics in Software Engineering B	1,2	2		
	<b>ENGG7300</b> Advanced Topics in Engineering I	2		<b>ENGG7300</b> Advanced Topics in Engineering I	1,2	2		
	<b>ENGG7301</b> Advanced Topics in Engineering II	2		<b>ENGG7301</b> Advanced Topics in Engineering II	1,2	2		

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