

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Electrical & Computer Engineering (2350): 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)/ME (Electrical & Computer Engineering Plan code: ELECEX2350), 80 units comprising –

- 60 units from [part A](#) - compulsory (listed below), and
- 16 units from the combination of parts [B](#), [C](#), and [N - electives](#), with
 - a minimum of 8 units from [part B](#) (including at least 4 units at level four), and
 - a minimum of 4 units from [part N](#), and
- 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.

✓/✗ compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
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	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	
	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	1	2	1/22
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2,S	2	

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	CSSE2310 Computer Systems Principles and Programming	2		CSSE2310 Computer Systems Principles and Programming	1,2	2	
	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	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 (discontinued)	2	2/23	ENGG4901 Professional Practice and the Business Environment A Or ENGG4902 Professional Practice and the Business Environment B	1,2	2	1/24
	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 (discontinued)	8	2/22	ENGG7291 Engineering Placement A	1	8	1/23
	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 B

✓/✗ compl.	Part B - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	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
	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	2		CSSE4004 Distributed Computing	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	
	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	

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	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
	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	
	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	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 (discontinued)	2	1/23	ENGG6020 Systems Safety Engineering	2	2	1/23
	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	

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✓/X compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	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	
	METR7203 Control Engineering 2 (discontinued)	2	1/20	METR6203 Control Engineering 2	2	2	1/21
	Courses offered on an occasional basis						
	COMS7000 Advanced Topics in Communications I	2		COMS7000 Advanced Topics in Communications I	1,2	2	
	CSSE7080 Advanced Topics in Computer Systems A	2		CSSE7080 Advanced Topics in Computer Systems A	1,2	2	
	CSSE7081 Advanced Topics in Computer Systems B	2		CSSE7081 Advanced Topics in Computer Systems B	1,2	2	
	CSSE7090 Advanced Topics in Software Engineering A	2		CSSE7090 Advanced Topics in Software Engineering A	1,2	2	
	CSSE7091 Advanced Topics in Software Engineering B	2		CSSE7091 Advanced Topics in Software Engineering B	1,2	2	
	ENGG7300 Advanced Topics in Engineering I	2		ENGG7300 Advanced Topics in Engineering I	1,2	2	
	ENGG7301 Advanced Topics in Engineering II	2		ENGG7301 Advanced Topics in Engineering II	1,2	2	

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