

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Electrical & Biomedical 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 & Biomedical Engineering Plan code: ELEBEX2350), 80 units comprising -

1. 62 units being all courses from part A - compulsory (listed below), and
2. 14 units from the combination of parts B, C and N - electives, with
 - (i) a minimum of 4 units from part N, and
 - (ii) a minimum of 4 units from part C, and
 - (iii) a maximum of 4 units of level one courses, 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.
	62 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 * 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		
	CSSE2010 Introduction to Computer Systems	2		CSSE2010 Introduction to Computer Systems	1,2	2		
	ELEC2003 Electromechanics & Electronics (discontinued)	2	1/21	ELEC2300 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		
	ELEC2004 Circuits, Signals & Systems	2		ELEC2004 Circuits, Signals & Systems	2	2		

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): _____

	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			
	ELEC3004 Signals, Systems & Control	2		ELEC3004 Circuits, Signals and Systems	1	2			
	ELEC3400 Electronic Circuits (discontinued)	2	1/21	ELEC2400 Electronic Circuits and Amplifiers (NEW)	1	2	1/22		
	ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2		ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2	2			
	ELEC4620 Digital Signal Processing	2	2	ELEC4620 Digital Signal Processing	2	2			
	ELEC6403 Biomedical Instrumentation (discontinued)	2	2/20	BIOE6403 Biomedical Instrumentation	2	2	2/21		
	ENGG3800 Team Project II	2		ENGG3800 Team Project II	2	2			
	ELEC4630 Image Processing and Computer Vision	2			1	2			
	ELEC7901 Advanced Medical Device Engineering (discontinued)	2	1/20	BIOE6901 Medical Device Engineering	1	2	1/21		
	ENGG4900 Professional Practice and the Business Environment	2		ENGG4900 Professional Practice and the Business Environment	1,2	2			
	ELEC6601 Medical Imaging (discontinued)	2	2/20	BIOE6601 Medical Imaging	2	2	2/21		
	ENGG7290 Engineering Placement Semester	8		ENGG7290 Engineering Placement Semester	1,2	8			
	ELEC7902 Biomedical Signal Processing (discontinued)	2	2/20	BIOE7902 Biomedical Signal Processing	2	2	2/21		
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2			
Part A units completed pre-2021:				Part A units to be substituted/completed:					
				Total Part A (must add up to 62 units):					

PART B

✓/X compl.	Part B - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	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		

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	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	
	CSSE2002 Programming in the Large	2		CSSE2002 Programming in the Large	1,2	2		
	CSSE4010 Digital System Design	2		CSSE4010 Digital System Design	2	2		
	CSSE4011 Advanced Embedded Systems	2		CSSE4011 Advanced Embedded Systems	1	2		
	ELEC3300 Electrical Energy Conversion & Utilisation (discontinued)	2	2/20	ELEC3310 Electrical Energy Conversion & Utilisation	2	2	2/21	
	ELEC4000 Special Topics in Electrical Engineering 4A	2		ELEC4000 Special Topics in Electrical Engineering 4A	1,2	2		
	ELEC4001 Special Topics in Electrical Engineering 4B	2		ELEC4001 Special Topics in Electrical Engineering 4B	1,2	2		
	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	
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	2	2		
	ENGG4020 Systems Safety Engineering	2		ENGG4020 Systems Safety Engineering	2	2		
	ENGG4800 Project Management	2		ENGG4800 Project Management	1	2		
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1				
	METR4202 Robotics & Automation	2		METR4202 Robotics & Automation				

PART C

✓/X compl.	Part C – Coverage Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOC2000 Biochemistry & Molecular Biology	2		BIOC2000 Biochemistry & Molecular Biology	1	2		
	BIOL1020 Genes, Cells & Evolution	2		BIOL1020 Genes, Cells & Evolution	1,2	2		
	BIOL1040 Cells to Organisms	2		BIOL1040 Cells to Organisms	1,2	2		

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	BIOL2200 Cell Structure & Function	2		BIOL2200 Cell Structure & Function	1	2		
	BIOL2202 Genetics	2		BIOL2202 Genetics	2	2		
	BIOL3014 Advanced Bioinformatics (discontinued)	2	2/20	BINF3014 Advanced Bioinformatics	2	2	2/21	
	BIOM2011 Integrative Cell & Tissue Biology	2		BIOM2011 Integrative Cell & Tissue Biology	1	2		
	BIOM2012 Systems Physiology	2		BIOM2012 Systems Physiology	2	2		
	BIOM2020 Human Anatomy	2		BIOM2020 Human Anatomy	1	2		
	BIPH2000 Foundations of Biophysics	2		BIPH2000 Foundations of Biophysics	2	2		
	CHEE1001 Principles of Biological Engineering (discontinued)	2	1/20	BIOE1001 Principles of Biomedical & Bioprocess Engineering	1	2	1/21	
	CHEE4020 Biomolecular Engineering	2		CHEE4020 Bioprocess Engineering	1	2		
	CHEE4034 Cell & Tissue Engineering (discontinued)	2	1/20	BIOE6034 Cell and Tissue Engineering	1	2	1/21	
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	2/20	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21	
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2		
	MATH3104 Mathematical Biology	2		MATH3104 Mathematical Biology	1	2		
	MICR2000 Microbiology & Immunology	2		MICR2000 Microbiology & Immunology	2	2		
	SCIE2100 Introduction to Bioinformatics	2		SCIE2100 Introduction to Bioinformatics	1	2		

PART D

✓/X compl.	Part D	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEM1090 Introductory Chemistry	2		CHEM1090 Introductory Chemistry	1	2		
	MATH1050 Mathematical Foundations	2		MATH1050 Mathematical Foundations	1,2	2		
	PHYS1171 Physical Basis of Biological Systems	2		PHYS1171 Physical Basis of Biological Systems	1,2	2		

PART N

✓/X compl.	Part N - Coverage 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		

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	COMS7307 Advanced Photonics	2		COMS7307 Advanced Photonics	2	2		
	COMS7309 Computational Techniques in Electromagnetics	2		COMS7309 Computational Techniques in Electromagnetics	2	2		
	ENGG7302 Advanced Computational Techniques in Engineering	2		ENGG7302 Advanced Computational Techniques in Engineering	1	2		
	ENGG7811 Research Methods	2		ENGG7811 Research Methods	1,2	2		
	PUBH7600 Introduction to Epidemiology	2		PUBH7600 Introduction to Epidemiology	1,2	2		
	PUBH7630 Introduction to Biostatistics	2		PUBH7630 Introduction to Biostatistics	1,2	2		
	PUBH7632 Advanced Biostatistics & Epidemiology	2		PUBH7632 Advanced Biostatistics & Epidemiology	na	2		
	Courses offered on an occasional basis							
	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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