

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Software 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 (Software Engineering Plan code: SOFTEX2350), 80 units comprising -

- 48 units from [part A](#) – compulsory; and
- 26 units from the combination of parts [B](#), [C](#) and [N - electives](#), including:
 - a minimum of 12 units from [part B](#) - electives with at least 8 units at level four or higher, and
 - a minimum of 4 units from [part N](#), and
 - a maximum of 6 units from [part C - coverage electives](#), and
- 6 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with:
 - a maximum of 4 units from [part D](#); and
 - a maximum of 4 units from level one courses not on the BE(Hons)/ME list.

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
48 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 * 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	
	INFS1200 Introduction to Information Systems	2		INFS1200 Introduction to Information Systems	1,2	2	
	MATH1061 Discrete Mathematics	2		MATH1061 Discrete Mathematics	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	
	COMP3506 Algorithms & Data Structures	2		COMP3506 Algorithms & Data Structures	2	2	

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	CSSE2310 Computer Systems Principles and Programming	2		CSSE2310 Computer Systems Principles and Programming	1,2	2	
	DECO2800 Design Computing Studio 2 - Testing & Evaluation (discontinued)	2	2/22	DECO2800 Design Computing Studio 2 - Testing & Evaluation (discontinued) or CSSE3200 Project Design Testing and Evaluation	2	2	2/22
	STAT2203 Probability Models and Data Analysis for Engineering	2		STAT2203 Probability Models and Data Analysis for Engineering	2	2	
	CSSE3002 The Software Process (discontinued)	2	1/20	CSSE3012 The Software Process	1	2	1/21
	DECO2500 Human-Computer Interaction	2		DECO2500 Human-Computer Interaction	1	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 Build	2	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
	ENGG7290 Engineering Placement Semester (discontinued)	8	2/22	ENGG7291 Engineering Placement A	1,2	8	1/23
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2	

✓/X 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	
	COMP3400 Functional & Logic Programming	2		COMP3400 Functional & Logic Programming	1	2	
	COMP3702 Artificial Intelligence	2		COMP3702 Artificial Intelligence	2	2	
	COMP3710 Pattern Recognition and Analysis	2		COMP3710 Pattern Recognition and Analysis	2	2	
	COMP4403 Compilers and Interpreters	2		COMP4403 Compilers and Interpreters	1	2	
	COMP4500 Advanced Algorithms & Data Structures	2		COMP4500 Advanced Algorithms & Data Structures	2	2	
	COMP4702 Machine Learning	2		COMP4702 Machine Learning	1	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	
	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	

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	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	
	CSSE3010 Embedded Systems Design & Interfacing	2		CSSE3010 Embedded Systems Design & Interfacing	1	2	
	CSSE3100 Reasoning About Programs	2		CSSE3100 Reasoning About Programs	1	2	
	CSSE4004 Distributed Computing (discontinued)	2	1/21	CSSE6400 Software Architecture	1	2	1/22
	CSSE4010 Digital System Design	2		CSSE4010 Digital System Design	2	2	
	CSSE4630 Principles of Program Analysis	2		CSSE4630 Principles of Program Analysis	2	2	
	DECO1400 Introduction to Web Design	2		DECO1400 Introduction to Web Design	1	2	
	DECO3500 Social & Mobile Computing	2		DECO3500 Social & Mobile Computing	2	2	
	DECO6500 Advanced Human-Computer Interaction	2		DECO6500 Advanced Human-Computer Interaction	2	2	
	INFS2200 Relational Database Systems	2		INFS2200 Relational Database Systems	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	

✓/X compl.	Part C - Coverage Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	COMP3880 International Software Development	2		COMP3880 International Software Development	2	2	
	CSSE4011 Advanced Embedded Systems	2		CSSE4011 Advanced Embedded Systems	1	2	
	ENGG4020 Systems Safety Engineering (discontinued)	2	1/23	ENGG6020 Systems Safety Engineering	2	2	1/23
	ENGG4800 Project Management	2		ENGG4800 Project Management	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	
	MATH2000 Calculus & Linear Algebra II (discontinued) OR MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2,S	2	
	MATH2010 Analysis of Ordinary Differential Equations	1		MATH2010 Analysis of Ordinary Differential Equations	1,2	1	

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✓/X compl.	Part D - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	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	

✓/X compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CSSE4630 Principles of Program Analysis	2		CSSE4630 Principles of Program Analysis	2	2	
	CSSE7610 Concurrency: Theory and Practice	2		CSSE7610 Concurrency: Theory and Practice	2	2	
	ENGG7302 Advanced Computational Techniques in Engineering	2		ENGG7302 Advanced Computational Techniques in Engineering	1,2	2	
	ENGG7811 Research Methods	2		ENGG7811 Research Methods	1,2	2	
	INFS7410 Information Retrieval and Web Search	2		INFS7410 Information Retrieval and Web Search	2	2	
	Courses offered on an occasional basis						
	COMP7000 Special Topics in Computer Science 7A	2		COMP7000 Special Topics in Computer Science 7A	1,2	2	
	COMP7001 Special Topics in Computer Science 7B	2		COMP7001 Special Topics in Computer Science 7B	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	
	DECO7000 Special Topics in Design Computing 7A	2		DECO7000 Special Topics in Design Computing 7A	1,2	2	
	DECO7001 Special Topics in Design Computing 7B	2		DECO7001 Special Topics in Design Computing 7B	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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