CHECKLIST Bachelor of Engineering (Honours) Software Engineering Specialisation: Transition to new program (commencing 2024)

* This checklist is for the BE(Hons) component for dual programs with Bachelor of Arts, Bachelor of Business Management, Bachelor of Commerce, Bachelor of Design, Bachelor of Economics.

**The Software Specialisation is not available with the Bachelor of Information Technology dual 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.
- Please contact the relevant Faculty for information regarding the other component of your dual program.

For the BE(Hons) component, with a specialisation in Software Engineering:
 (a) 56 units from the BE(Hons) component, comprising—
    (i) 8 units for BE(Hons) core courses, and
    (ii) 36 units for a BE(Hons) Software Engineering specialisation, and
        i)   34 units for all Software Engineering Compulsory Courses, and
        ii)   2 units from BE(Hons) Program Elective Course
    (iii) 2 units for all Software Engineering Extension Course, and
    (iv) 6 to 10 units from Software Engineering Advanced Elective Courses, and
    (v) 0 to 4 units from Software Engineering Breadth Elective Courses

✓/x compl.	BE(Hons) Core Courses (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all Core Courses					
	ENGG1100 Professional Engineering	1,2	2		Course must be completed [ENGG1211 (4 units) will count as 2 units towards Part A in lieu of ENGG1100, and 2 units towards program electives]	
	ENGG1001 Programming for Engineers **or** **CSSE1001** Introduction to Software Engineering	1,2	2		Course must be completed	
	MATH1051 Calculus & Linear Algebra I **or** **MATH1071** Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **or** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		Course must be completed	

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Specialisation Software Engineering

Complete 48 units comprising:

i.   36 units for one Specialisation from Software Engineering, and
          iii)   34 units for all Software Engineering Compulsory Courses, and
          iv)   2 units from BE(Hons) Program Elective Course
ii.   2 units for all Software Engineering Extension Course, and
iii.   6 to 10 units from Software Engineering Advanced Elective Courses, and
iv.   0 to 4 units from Software Engineering Breadth Elective Courses

✓/x compl.	Software Engineering Specialisation list (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
	34 units for all Compulsory Courses					
	ENGG1300 Introduction to Electrical Systems	1,2	2		Course must be completed	
	INFS1200 Introduction to Information Systems	1,2	2		Course must be completed	
	MATH1061 Discrete Mathematics	1,2	2		Course must be completed	
	CSSE2002 Programming in the Large	1,2	2		Course must be completed	
	CSSE2010 Introduction to Computer Systems	1,2	2		Course must be completed	
	CSSE2310 Computer Systems, Principles and Programming	1,2	2		Course must be completed	
	DECO2500 Human-Computer Interaction	1	2		Course must be completed	
	STAT2203 Probability Models and Data Analysis for Engineering	2	2		Course must be completed	
	COMP3400 Functional and Logic Programming	1	2		Course must be completed	
	COMP3506 Algorithms and Data Structures	2	2		Course must be completed	
	CSSE3012 The Software Process	1	2		**CSSE3002** The Software Process (discontinued)	**1/20**
	CSSE3200 Project Design Testing and Evaluation	2	2		**DECO2800** Design Computing Studio 2 - Testing & Evaluation	
	DECO3801 Design Computing Studio Build	2	2		Course must be completed	
	CSSE6400 Software Architecture	1	2		Course must be completed	
	ENGG4901 Professional Practice and the Business Environment A or **ENGG4902** Professional Practice and the Business Environment B	1 2	2 2	**1/24**	**ENGG4900** Professional Practice and the Business Environment (discontinued)	**2/23**
	REIT4841 Research and Development Methods and Practice (4) or **REIT4842** Research and Development Methods and Practice (4)	1 2	4		**ENGG4801** Thesis Project (discontinued) / **ENGG4811** (from 1/21) or **ENGG4802** Thesis Project (discontinued) / **ENGG4812** (from 2/21)	**1/21** **2/21**

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	2 units from BE(Hons) Program Elective Course					

	2 units for Software Engineering Extension Course					
	DECO3800 Design Computing Studio 3 – Proposal	1	2		Course must be completed	

	6 to 10 units from Software Engineering Advanced Electives (4 units at level 3 or higher)					
	COMP3301 Operating Systems Architecture	2	2		No substitution	
	COMP3400 Functional & Logic Programming	1	2		No substitution	
	COMP3702 Artificial Intelligence	2	2		No substitution	
	COMP3710 Pattern Recognition and Analysis	2	2		No substitution	
	COMP3820 Digital Health Software Project	2	2		No substitution	
	COMP4403 Compilers and Interpreters	1	2		No substitution	
	COMP4500 Advanced Algorithms & Data Structures	2	2		No substitution	
	COMP3710 Pattern Recognition and Analysis	2	2		No substitution	
	COMP4702 Machine Learning	1	2		No substitution	
	CYBR3000 Information Security	2	2		**COMS3000** Information Security (discontinued)	**2/20**
	COMS3200 Computer Networks I	1	2		No substitution	
	COMS4507 Advanced Topics in Security	1	2		No substitution	
	COMS6200 Computer Networks II	2	2		**COMS4200** Computer Networks II (discontinued)	**2/20**
	COSC3000 Visualization, Computer Graphics & Data Analysis	1	2		No substitution	
	COSC3500 High-Performance Computing	2	2		No substitution	
	CSSE3010 Embedded Systems Design & Interfacing	1	2		No substitution	
	CSSE3100 Reasoning About Programs	1	2		No substitution	
	CSSE4010 Digital System Design	2	2		No substitution	
	CSSE4630 Principles of Program Analysis	2	2		No substitution	

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	DECO3500 Social & Mobile Computing	2	2		No substitution	
	DECO3800 Design Computing Studio 3 – Proposal	1	2		No substitution	
	DECO6500 Advanced Human-Computer Interaction	2	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	INFS3200 Advanced Database Systems	1,2	2		No substitution	
	INFS3202 Web Information Systems	1	2		No substitution	
	INFS3208 Cloud Computing	2	2		No substitution	
	INFS4203 Data Mining	2	2		No substitution	
	INFS4205 Advanced Techniques for High Dimensional Data	1	2		No substitution	

	0 to 4 units from Software Engineering Breadth Electives					
	COMP3880 International Software Development	2	2		No substitution	
	ENGG6020 Systems Safety Engineering	2	2		No substitution	
	MATH2001 Calculus & Linear Algebra II	1,2,S	2		**MATH2000** Calculus & Linear Algebra II (discontinued)	
	Software Engineering Breadth Electives can also be chosen from course lists for the following major: o Computer Engineering *Courses on this list may require pre-requisites. Please seek academic advice if required.*					

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