CHECKLIST Bachelor of Engineering (Honours) – Software Engineering: Transition to new program

* This checklist is for the BE(Hons) component ONLY for dual programs with Bachelor of Mathematics and Bachelor of Science

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
- Please ensure you read the program rules to check for any special rules with your dual program, as course restrictions may apply
- 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:

I. 8 units for all BE(Hons) Core Courses; and

II. 36 units for one Specialisation in Software Engineering; and

III. One of the following:

    a. 16 units for one Major from Software Engineering Major Options*, or

    b. 16 units for Software Engineering Minor Options**, or

    c. 16 units for Software Engineering Specialisation No Major option

*Major available in: Computer Engineering
**Minor available in: Data Science, Design

✓/X compl.	You must complete (NEW Program requirements)	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 (NEW) **or** **CSSE1001** Introduction to Software Engineering	1,2	2	**1/21**	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	

√ - course already completed   X – course to be undertaken   **Checked by (Faculty: Name and Date):** _____

✓/X compl.	2021 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	1/21	**CSSE3002** The Software Process (discontinued)	**1/20**
	CSSE3200 Project Design Testing and Evaluation (NEW)	2	2	2/22	**DECO2800** Design Computing Studio 2 - Testing & Evaluation	
	DECO3801 Design Computing Studio Build	2	2		Course must be completed	
	CSSE4400 Software Architecture (NEW)	1	2	1/22	Course must be completed	
	ENGG4900 Professional Practice and the Business Environment	1,2	2		Course must be completed	
	ENGG4811 or REIT4841 Research and Development Methods and Practice (NEW) or **ENGG4812 or REIT4842** Research and Development Methods and Practice (NEW)	1 2	4	1/22 2/22	**ENGG4801** Thesis Project (discontinued) or **ENGG4802** Thesis Project (discontinued)	**1/21** **2/21**
	2 units from Program Electives					

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BE(Hons) Transition Plan – Software Engineering NEW   **Checked by (Faculty: Name and Date): _____**

Software Engineering No Major Option

Complete 16 units comprising:

    i.   2 units for Software Engineering Extension Compulsory course; and

    ii.   6 to 14 units from Software Engineering Advanced Electives with 4 units at Level 3 or higher; and

    iii.   0 to 8 units from Software Engineering Breadth Electives; and

    iv.   0 to 4 units from Program Electives; and

    v.   0 to 4 units from General Electives.

✓/X compl.	2 units for: Software Engineering Extension Course	Sem offering	#	First offered	Approved substitution	Last offered
	DECO3800 Design Computing Studio 3 – Proposal	1	2		Course must be completed	
	6 to 14 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 (NEW)	2	2	2/21	No substitution	
	COMP4403 Compilers and Interpreters	1	2		No substitution	
	COMP4500 Advanced Algorithms & Data Structures	2	2		No substitution	
	COMP4702 Machine Learning	1	2		No substitution	
	CYBR3000 Information Security	2	2	2/21	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	2/21	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	
	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	

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✓/X compl.		Sem offering	#	First offered	Approved substitution	Last offered
	INFS4205 Advanced Techniques for High Dimensional Data	1	2		No substitution	
	0 to 8 units from: **Software Engineering Breadth Electives**					
	COMP3880 International Software Development	2	2		No substitution	
	ENGG4020 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.

✓/X compl.	Major in Computer Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	6 units for: **Computer Engineering Courses for Software Engineers** <u>only</u>					
	CSSE3010 Embedded Systems Design & Interface	1	2		Course must be completed	
	DECO3800 Design Computing Studio 3 – Proposal	1	2		Course must be completed	
	ELEC2400 Electronic Circuits and Amplifiers (NEW)	1	2	1/22	**ELEC3400** Electronic Circuits (discontinued)	1/21
	4 units for: **Computer Engineering Compulsory Courses**					
	CSSE4010 Digital System Design	2	2		Course must be completed	
	CSSE4011 Advanced Embedded Systems	1	2		Course must be completed	
	2 units from: **Computer Engineering Electives**					
	COMP2140 Web/Mobile Programming (NEW)	2	2	2/22	No substitution	
	COMP3301 Operating Systems Architecture	2	2		No substitution	
	COMP3702 Artificial Intelligence	2	2		No substitution	
	COMP3710 Pattern Recognition and Analysis	2	2		No substitution	
	COMP4403 Compilers and Interpreters	1	2		No substitution	
	COMP4500 Advanced Algorithms & Data Structures	2	2		No substitution	
	COMP4702 Machine Learning	1	2		No substitution	
	CYBR3000 Information Security	2	2	2/21	**COMS3000** Information Security (discontinued)	2/20
	COMS3200 Computer Networks I	1	2		No substitution	
	COMS4113 Photonics	1	2	1/21	**COMS4103** Photonics (discontinued)	1/20

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	Course	Sem	Units	New Sem	Substitution	Old Sem
	COMS4104 Microwave Engineering	1	2		No substitution	
	COMS4105 Communication Systems	2	2		No substitution	
	COMS4507 Advanced Topics in Security	1	2		No substitution	
	COMS6200 Computer Networks II	2	2	2/21	**COMS4200** Computer Networks II (discontinued)	2/20
	CSSE3012 The Software Process	1	2	1/21	**CSSE3002** The Software Process (discontinued)	1/20
	CSSE3100 Reasoning About Programs	1	2		No substitution	
	CSSE3200 Project Design Testing and Evaluation (NEW)	2	2	2/22	**DECO2800** Design Computing Studio 2 - Testing & Evaluation	
	CSSE4004 Distributed Computing	1	2		No substitution	
	CSSE4400 Software Architecture (NEW)	1	2	1/22	No substitution	
	CSSE4630 Principles of Program Analysis	2	2		No substitution	
	COSC3500 High Performance Computing	2	2		No substitution	
	DECO1400 Introduction to Web Design	1	2		No substitution	
	DECO2500 Human-Computer Interaction	1	2		No substitution	
	ELEC3310 Electrical Energy Conversion & Utilisation	2	2	2/21	**ELEC3300** Electrical Energy Conversion & Utilisation (discontinued)	2/20
	ELEC4310 Power Systems Analysis	1	2	1/21	**ELEC4300** Power Systems Analysis (discontinued)	1/20
	ELEC4620 Digital Signal Processing	2	2		No substitution	
	ELEC4630 Image Processing and Computer Vision	1	2		No substitution	
	ENGG2800 Team Project I	1,2	2		No substitution	
	ENGG3800 Team Project II	2	2		No substitution	
	ENGG4800 Project Management	1	2		No substitution	
	INFS1200 Introduction to Information Systems	1,2	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	MATH1061 Discrete Mathematics		2		No substitution	
	METR3100 Control System Implementation	1	2		No substitution	
	METR4202 Robotics & Automation	2	2		No substitution	

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Software Engineering with Minor Option

Complete 16 units comprising:

    i.   8 units for one of the following minors:
            Data Science
            Design

and

    ii.   2 units for Software Engineering Extension Course; and
    iii.   6 units from Software Engineering Advanced Electives

✓/X compl.	Minor in Data Science (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	DATA2001 Introduction to Data Science (NEW)	2	2	**2/22**	Course must be completed	
	INFS1200 Introduction to Information Systems	1,2	2		Course must be completed	
	4 units from: Data Science Electives					
	COMP4702 Machine Learning	1	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	INFS3208 Cloud Computing	2	2		No substitution	
	INFS4203 Data Mining	2	2		No substitution	
	STAT2003 Mathematical Probability	1	2		No substitution	
	STAT2004 Statistical Modelling & Analysis	2	2		No substitution	

Where courses are compulsory in both the specialisation and minor, the compulsory course in the minor must be substituted by courses from Data Science Minor Electives.

✓/X compl.	Minor in Design (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	2 units for all: Design Minor Compulsory Courses					
	DSGN1500 Design for a Better World	2	2	**2/21**	Course must be completed	
	6 units from: Design Electives					
	DSGN1100 Design: Interaction	1	2		No substitution	
	DSGN1200 Design: Experience	2	2		No substitution	
	DSGN2100 Design: Organisation	1	2		No substitution	

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	DSGN2200 Design: Environment	2	2		No substitution	
	DSGN3100 Design: Infrastructure	1	2		No substitution	

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