CHECKLIST Bachelor of Engineering (Honours) – Software Engineering (2455): Transition to new 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

Complete 64 units comprising -

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, and
IV. 0 to 4 units from Preparatory Science and Mathematics Courses; and
V. 0 to 4 units from Program Electives; and
VI. 0 to 4 units from General Electives.

*Major available in: Computer Engineering

**Minor available in: Data Science; Design

NB: Of the 64 units required for the program, students must complete at least 24 units of courses at level 3 or higher and no more than 24 units at level 1.

✓/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 (discontinued)	**2/22**
	DECO3801 Design Computing Studio Build	2	2		Course must be completed	
	CSSE6400 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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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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	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	
	ENGG6020 Systems Safety Engineering	2	2	**1/23**	ENGG4020 Systems Safety Engineering (Discontinued)	**1/23**
	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:

☐ 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 only					
	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	
	0 to 8 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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	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 (discontinued)	**2/22**
	CSSE6400 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	

Software Engineering with Minor Option

Complete 16 units comprising:

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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	
	DSGN2200 Design: Environment	2	2		No substitution	

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	DSGN3100 Design: Infrastructure	1	2		No substitution	