

CHECKLIST Bachelor of Computer Science: Transition to new 2021 program (2451)

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 48 units comprising:

- 16 units for all BCompSc Core Courses, and
- 16 to 32 units for BCompSc Plan Options:
 - BCompSc No major Option, being
 - 2 units for Computer Science Extension course; and
 - 8 to 16 units from Computer Science Introductory Electives; and
 - 6 to 22 units from Computer Science Advanced electives; or
 - BCompSc Single Major Option, being
 - 16 units for a Major; or
 - BCompSc Extended Major Option, being
 - 24 units for an Extended Major; or
 - BCompSc Two Major Option, being
 - 16 units for a Major; and
 - 16 units for another Major where courses that are compulsory in both Majors must be substituted by program electives at the same level or higher; and
- 0 to 16 unit from BCompSc Breadth Elective Courses, and
- 0 to 16 units from BCompSc Program Elective Courses, and
- 0 to 16 unit from General Elective Courses

NB: of the 48 units required for the program, students must complete at least 8 units of courses at level 3 or higher and no more than 24 units at level 1.

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/X compl.	You must complete (NEW Program requirements)	Sem offering	#	First offered	Approved substitution	Last offered
	16 units for all: Core Courses					
	COMP2048 Theory of Computing	1	2		Course must be completed	
	COMP3506 Algorithms & Data Structures	2	2		Course must be completed	
	CSSE1001 Introduction to Software Engineering	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	

✓ - course already completed X – course to be undertaken

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	INFS1200 Introduction to Information Systems	1,2	2		Course must be completed	
	MATH1061 Discrete Mathematics	1,2	2		Course must be completed	
	STAT1201 Analysis of Scientific Data OR STAT1301 Advanced Analysis of Scientific Data	1,2,5 2	2 2		STAT2203 Probability Models & Data Analysis for Engineering	

No major option

✓/X compl.	2 units for Computer Science Extension course	Sem offering	#	First offered	Approved substitution	Last offered
	DECO3801 Design Computing Studio 3 - Build	2	2		Course must be completed	

8 to 16 units from: Computer Science Introductory Electives						
✓/X compl.		Sem offering	#	First offered	Approved substitution	Last offered
	COMP2140 Web/Mobile Programming (NEW)	2	2	2/22	No substitution	
	COSC2500 Numerical Methods in Computational Science	2	2		No substitution	
	CSSE2310 Computer Systems Principles and Programming	1,2	2		No substitution	
	DATA2001 Introduction to Data Science (NEW)	2	2	2/22	No substitution	
	DECO1400 Introduction to Web Design	1	2		No substitution	
	DECO2500 Human-Computer Interaction	1	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra	1,2,5 1	2		No substitution	

6 to 22 units from: Computer Science Advanced Electives						
✓/X compl.		Sem offering	#	First offered	Approved substitution	Last offered
	COMP3301 Operating Systems Architecture	2	2		No substitution	
	COMP3320 Vulnerability Assessment and Penetration Testing	1	2		No substitution	

Once you have completed the checklist, you may either email your checklist to the Faculty on enquiries@eit.uq.edu.au or book an appointment with an Academic Advisor directly.

BCompSc Transition Plan – new

Checked by (Faculty: Name and Date): _____

	COMP3400 Functional & Logic Programming	1	2		No substitution	
	COMP3702 Artificial Intelligence	2	2		No substitution	
	COMP3820 Digital Health Software Project (NEW)	2	2	2/21	No substitution	
	COMP4403 Compilers and Interpreters	1	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 1	1	2		No substitution	
	COSC3000 Visualization, Computer Graphics & Data Analysis	1	2		No substitution	
	COSC3500 High-Performance Computing	2	2		No substitution	
	CSSE3012 The Software Process	1	2	1/21	CSSE3002 The Software Process (discontinued)	1/20
	CSSE3006 Special Projects in Computer Systems and Software Engineering	1,2	4		No substitution	
	CSSE3100 Reasoning About Programs	1	2		No substitution	
	DECO3500 Social & Mobile Computing	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	
	MATH3201 Scientific Computing: Advanced Techniques and Applications	1	2		No substitution	
	MATH3202 Operations Research & Mathematical Planning	1	2		No substitution	
	MATH3302 Coding & Cryptography	1	2		No substitution	

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Major options

✓/X compl.	Major in DATA SCIENCE (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	16 units for					
	COMP4702 Machine Learning	1	2		Course must be completed	
	DATA2001 Introduction to Data Science (NEW)	2	2	2/22	Course must be completed	
	DECO3801 Design Computing Studio 3 - Build	2	2		Course must be completed	
	INFS2200 Relational Database Systems	2	2		Course must be completed	
	INFS3200 Advanced Database Systems	1	2		Course must be completed	
	MATH1051 Calculus & Linear Algebra OR MATH1071 Advanced Calculus & Linear Algebra	1,2,S 1	2		Course must be completed	
	STAT2003 Mathematical Probability	1	2		Students who have completed STAT2203 towards the core program requirement (i.e. in place of STAT1201 or STAT1301) are exempt from the requirement to complete STAT2003 towards this major and must complete a Computer Science Introductory Elective or Computer Science Advanced Elective in place of STAT2003. Students who have completed STAT1201 or STAT1301 towards the core program requirement must complete STAT2003.	
	STAT2004 Statistical Modelling & Analysis	2	2		Course must be completed	

	Major in CYBER SECURITY (16 units)					
	4 units from Cyber Security Introductory Electives					
	CRIM1000 Introduction to Criminology	1	2		No substitution	
	DECO2500 Human-Computer Interaction	1	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	and 12 units for Cyber Security Compulsory Courses					
	COMP3301 Operating Systems Architecture	2	2		Course must be completed	
	COMP3320 Vulnerability Assessment & Penetrating Testing	1	2		Course must be completed	

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	CYBR3000 Information Security	2	2	2/21	COMS3000 Information Security (discontinued)	2/20
	COMS3200 Computer Networks 1	1	2		Course must be completed	
	CSSE2310 Computer Systems Principles & Programming	2	2		Course must be completed	
	DECO3801 Design Computing Studio 3 - build	2	2		Course must be completed	

✓/X compl.	Major in PROGRAMMING LANGUAGES (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	2 units from Programming Languages Level 2 Electives					
	DECO2500 Human Computer Interaction	1	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	and 14 units for Programming Languages Compulsory Electives					
	COMP2140 Web/Mobile Programming (NEW)	2	2	2/22	Course must be completed	
	COMP3400 Functional & Logic Programming	1	2		Course must be completed	
	COMP4403 Compilers and Interpreters	1	2		Course must be completed	
	CSSE2310 Computer Systems Principles and Programming	1,2	2		Course must be completed	
	CSSE3100 Reasoning About Programs	1	2		Course must be completed	
	DECO1400 Introduction to Web Design	1	2		Course must be completed	
	DECO3801 Design Computing Studio 3 - Build	2	2		Course must be completed	

	Major in MACHINE LEARNING (16 units)					
	16 units for					
	COMP3702 Artificial Intelligence	2	2		Course must be completed	
	COMP3710 Pattern Recognition and Analysis	2	2		Course must be completed	
	COMP4702 Machine Learning	1	2		Course must be completed	

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	DECO3801 Design Computing Studio 3 - Build	2	2		Course must be completed	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2,S 1	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	
	MATH2302 Discrete Mathematics II	2	2		Course must be completed	
	STAT3006 Statistical Learning	2	2		Course must be completed	

✓/X compl.	Major in SCIENTIFIC COMPUTING (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	16 units for					
	COSC2500 Numerical Methods in Computational Science	2	2		Course must be completed	
	COSC3000 Visualization, Computer Graphics & Data Analysis	1	2		Course must be completed	
	COSC3500 High-Performance Computing	2	2		Course must be completed	
	DECO3801 Design Computing Studio 3 - Build	2	2		Course must be completed	
	INFS2200 Relational Database Systems	2	2		Course must be completed	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2, S 1	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	
	SCIE2100 Bioinformatics 1: Introduction	1	2		Course must be completed	

Extended Major Option

✓/X compl.	Extended Major in DATA SCIENCE (24 units)	Sem offering	#	First offered	Approved substitution	Last offered
	24 units for:					
	COMP3702 Artificial Intelligence	2	2		No substitution	
	COMP4702 Machine Learning	1	2		No substitution	
	DATA2001 Introduction to Data Science (NEW)	2	2	2/22	No substitution	

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	DECO3801 Design Computing Studio 3 - Build	2	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	INFS3200 Advanced Database 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	
	MATH1051 Calculus & Linear Algebra or MATH1071 Advanced Calculus & Linear Algebra I	1,2, S 1	2		No substitution	
	STAT2003 Mathematical Probability	1	2		Students who have completed STAT2203 towards the core program requirement (i.e. in place of STAT1201 or STAT1301) are exempt from the requirement to complete STAT2003 towards this major and must complete a Computer Science Introductory Elective or Computer Science Advanced Elective in place of STAT2003. Students who have completed STAT1201 or STAT1301 towards the core program requirement must complete STAT2003.	
	STAT2004 Statistical Modelling & Analysis	2	2		No substitution	

	0 to 16 units from BCompSc Breadth Electives					
	DECO1100 Design Thinking	1	2		No substitution	
	DECO1400 Introduction to Web Design	1	2		No substitution	
	DECO1800 Design Computing Studio 1 – Interactive	2	2		No substitution	
	DECO2300 Digital Prototyping	2	2		No substitution	
	DECO2800 Design Computing Studio 2 – Testing & Evaluation	2	2		No substitution	
	DECO3850 Physical Computing & Interaction Design Studio	1	4		No substitution	
	ENGG1300 Introduction to Electrical Systems	1,2	2		No substitution	
	ENGG1600 Introduction to Research Practices – The Big Issues	2	2		No substitution	
	MATH1050 Mathematical Foundations	1,2	2		No Substitution	

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	MATH1051 Calculus & Linear Algebra I	1,2,S	2		No Substitution	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations	1,2	2		No Substitution	
	MATH2001 Calculus & Linear Algebra II	1,2	2		MATH2000 Calculus & Linear Algebra II (discontinued)	2/20
	MATH2301 Linear & Abstract Algebra & Number Theory	1	2		No Substitution	
	MATH2302 Discrete Mathematics II	2	2		No Substitution	
	MATH3104 Mathematical Biology	1	2		No Substitution	
	SCIE1000 Theory & Practice in Science	1,2,S	2		No Substitution	
	SCIE2100 Introduction to Bioinformatics	1	2		No Substitution	
	STAT2003 Mathematical Probability	1	2		No Substitution	
	STAT2004 Statistical Modelling & Analysis	2	2		No Substitution	

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