Checklist – Bachelor of Computer Science

Student Name: _____

Student Number: _____

Date Completed: _____

Completion of pre-2021 program (2425)

IMPORTANT Notes:

- The information contained in this document is intended as general advice only. Students must follow the program and course requirements listed on Programs and Courses relevant to the year they commence.
- Students are responsible for checking future course offerings, prerequisites, incompatibilities and restrictions for all courses as they 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.
- Once you have completed the checklist, you may email your checklist to the Faculty on enquiries@eait.uq.edu.au

You are required to complete one of the following:

1. BCompSc with no major, 48 units comprising:
    a. 24 units from Part A; and
    b. at least 6 units from Part B; and
    c. at least 6 units from Part C; and
    d. the balance from electives being courses from Part D or other courses approved by the Executive Dean; or
2. BCompSc with a single major, 48 units comprising:
    a. 24 units from Part A; and
    b. 12 units from Part E under one heading; and
    c. the balance from electives being courses from the combination of Part B, Part C and Part D or other courses approved by the Executive Dean

NB: of the 48 units required for the program, students must complete no more than 20 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	**Part A - Compulsory**	#	Last offered	If NOT completed, you can choose	Sem Offering	#	First offered
	24 units from Part A - Compulsory						
	CSSE1001 Introduction to Software Engineering	2		**CSSE1001** Introduction to Software Engineering	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	
	CSSE2310 Computers Systems Principles and Programming	2		**CSSE2310** Computers Systems Principles and Programming	1,2	2	
	COMP2048 Theory of Computing	2		**COMP2048** Theory of Computing	1	2	
	COMP3506 Algorithms & Data Structures	2		**COMP3506** Algorithms & Data Structures	2	2	
	COMP4500 Advanced Algorithms & Data Structures	2		**COMP4500** Advanced Algorithms & Data Structures	2	2	
	DECO3801 Design Computing Studio 3 - Build	2		**DECO3801** Design Computing Studio 3 - Build	1,2	2	

	INFS1200 Introduction to Information Systems	2		**INFS1200** Introduction to Information Systems	1,2	2	
	MATH1051 Calculus & Linear Algebra **OR** **MATH1071** Advanced Calculus & Linear Algebra	2		**MATH1051** Calculus & Linear Algebra **OR** **MATH1071** Advanced Calculus & Linear Algebra	1,2,S 1	2	
	MATH1061 Discrete Mathematics	2		**MATH1061** Discrete Mathematics **OR** **MATH1081** Advanced Discrete Mathematics	1,2 1	2	
	STAT2203 Probability Models & Data Analysis for Engineering	2		**STAT2203** Probability Models & Data Analysis	2	2	

✓/X	**Part B – Introductory Electives**	#	Last offered	If NOT completed, you can choose	Sem Offering	#	First offered
	6 units comprising at least 2 units from						
	DECO2500 Human-Computer Interaction	2		**DECO2500** Human-Computer Interaction	1,2	2	
	INFS2200 Relational Database Systems	2		**INFS2200** Relational Database Systems	2	2	
	and the balance from						
	COSC2500 Numerical Methods in Computational Science	2		**COSC2500** Numerical Methods in Computational Science	2	2	
	SCIE2100 Introduction to Bioinformatics	2		**SCIE2100** Bioinformatics 1: Introduction	1	2	

✓/X	**Part C – Advanced Electives**	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered
	6 units from						
	COMP3301 Operating Systems Architecture	2		**COMP3301** Operating Systems Architecture	2	2	
	COMP3320 Vulnerability Assessment and Penetration Testing	2		**COMP3320** Vulnerability Assessment and Penetration Testing	1	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	
	COMS3000 Information Security (discontinued)	2	**2/20**	**CYBR3000** Information Security	2	2	**2/21**
	COMS3200 Computer Networks 1	2		**COMS3200** Computer Networks 1	1	2	
	COMS4507 Advanced Topics in Security	2		**COMS4507** Advanced Topics in Security	1	2	
	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	
	CSSE3002 The Software Process (discontinued)	2	**1/20**	**CSSE3012** The Software Process	1	2	**1/21**
	CSSE3006 Special Projects in Computer Systems & Software Engineering (discontinued)	2		No Substitution			
	CSSE3100 Reasoning About Programs	2		**CSSE3100** Reasoning About Programs	1	2	

	CSSE4630 Principles of Program Analysis	2		**CSSE4630** Principles of Program Analysis	2	2	
	DECO2800 Design Computing Studio 2 – Testing & Evaluation (discontinued)	2		**DECO2850** Design Computing Studio 2 – Testing & Evaluation	2	2	
	DECO3500 Social & Mobile Computing	2		**DECO3500** Social & Mobile Computing	2	2	
	INFS3200 Advanced Database Systems	2		**INFS3200** Advanced Database Systems	1	2	
	INFS3202 Web Information Systems	2		**INFS3202** Web Information Systems	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	
	MATH3201 Scientific Computing: Advanced Techniques & Applications	2		**MATH3201** Scientific Computing: Advanced Techniques and Applications	1	2	
	MATH3202 Operations Research & Mathematical Planning	2		**MATH3202** Operations Research & Mathematical Planning	1	2	
	MATH3302 Coding & Cryptography	2		**MATH3302** Coding & Cryptography	1	2	

✓/X	**Part D – Other Electives**	#	Last offered	If NOT completed, you can choose	Sem Offering	#	First offered
	ACCT1101 Accounting for Decision Making	2		**ACCT1101** Accounting for Decision Making	1,2	2	
	BIOL1020 Genes, Cells & Evolution	2		**BIOL1020** Genes, Cells & Evolution	1,2	2	
	BIOL2202 Genetics	2		**BIOL2202** Genetics	2	2	
	BIOL3004 Genomics & Bioinformatics (discontinued)	2	**1/20**	**BIOL3303** Genomics	1	2	**1/21**
	BIOL3014 Advanced Bioinformatics (discontinued)	2	**2/20**	**SCIE3100** Bioinformatics 2: Development & Research	2	2	**2/21**
	BISM3205 Business Information Security	2		**BISM3205** Business Information Security	2	2	
	BISM3222 Information Analysis and System Design	2		**BISM3222** Information Analysis and System Design	1	2	
	CHEM1100 Chemistry 1	2		**CHEM1100** Chemistry 1	1,2	2	
	COMU1130 Connectivity and Culture	2		**COMU1130** Data and Society	2	2	
	COMU1140 Multimedia	2		**COMU1140** Multimedia	1,2	2	
	DECO1100 Design Thinking	2		**DECO1100** Design Thinking	1	2	
	DECO1400 Introduction to Web Design	2		**DECO1400** Introduction to Web Design	1	2	
	DECO1800 Design Computing Studio 1 – Interactive Technology	2		**DECO1800 D**esign Computing Studio 1 – Interactive Technology	2	2	
	DECO2300 Digital Prototyping	2		**DECO2300** Digital Prototyping and Extended Reality	2	2	
	DECO3850 Physical Computing & Interaction Design Studio	4		**DECO3850** Physical Computing Studio	1	4	
	ECON1010 Introductory Microeconomics	2		**ECON1010** Introductory Microeconomics	1,2,S	2	
	ENGG1300 Introduction to Electrical Systems	2		**ENGG1300** Introduction to Electrical Systems	1,2	2	
	ENGG1600 Introduction to Research Practices - The Big Issues (discontinued)	2	**1/21**	No substitution			

	LAWS1100 Business Law	2		**LAWS1100** Business Law	1,2	2	
	MATH1050 Mathematical Foundations	2		**MATH1050** Mathematical Foundations II	1,2	2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations	2		**MATH1052** Multivariate Calculus & Ordinary Differential Equations	1,2,S	2	
	MATH2000 Calculus & Linear Algebra II (discontinued)	2	**2/20**	**MATH2001** Calculus & Linear Algebra II	1,2,S	2	
	MATH2301 Linear & Abstract Algebra & Number Theory	2		**MATH2301** Linear & Abstract Algebra & Number Theory	1	2	
	MATH2302 Discrete Mathematics II	2		**MATH2302** Discrete Mathematics II	2	2	
	MATH3104 Mathematical Biology	2		**MATH3104** Mathematical Biology	1	2	
	MGTS1301 Introduction to Management	2		**MGTS1301** Introduction to Management	1,2	2	
	MKTG1501 Foundations of Marketing	2		**MKTG1501** Foundations of Marketing	1,2	2	
	PHYS1002 Electromagnetism & Modern Physics	2		**PHYS1002** Electromagnetism & Modern Physics	2	2	
	SCIE1000 Theory & Practice in Science	2		**SCIE1000** Theory & Practice in Science	1,2,S	2	
	STAT2003 Mathematical Probability	2		**STAT2003** Mathematical Probability	1	2	
	STAT2004 Statistical Modelling & Analysis	2		**STAT2004** Statistical Modelling & Analysis	2	2	
	TIMS3309 Fundamentals of Technology and Innovation Management	2		**TIMS3309** Fundamentals of Technology and Innovation Management	2	2	
Courses offered on an occasional basis							
	COMP2000 Special Topics in Computer Science 2A (discontinued)	2	**1/20**	No substitution			
	COMP2001 Special Topics in Computer Science 2B (discontinued)	2	**2/19**	No substitution			
	COMP3000 Special Topics in Computer Science 3A (discontinued)	2	**2/20**	No substitution			
	COMP3001 Special Topics in Computer Science 3B (discontinued)	2	**2/21**	No substitution			
	COMP3880 International Software Development 1	2		**COMP3880** International Software Development 1 **or** **COMP3881** International Software Development 2	See note*	2	
	CSSE3006 Special Projects in Computer Systems & Software Engineering (discontinued)	2	**2/20**	No substitution			
	CSSE3080 Special Topics in Computer Systems 3A (discontinued)	2	**2/20**	No substitution			
	CSSE3081 Special Topics in Computer Systems 3B (discontinued)	2	**2/19**	No substitution			
	CSSE3090 Special Topics in Software Engineering 3A (discontinued)	2	**S/19**	No substitution			
	CSSE3091 Special Topics in Software Engineering 3B (discontinued)	2	**1/20**	No substitution			
	DECO2000 Special Topics in Design Computing 2A (discontinued)	2	**2/19**	No substitution			
	DECO2001 Special Topics in Design Computing 2B (discontinued)	2	**2/19**	No substitution			
	DECO3000 Special Topics in Design Computing 3A (discontinued)	2	**2/19**	No substitution			
	DECO3001 Special Topics in Design Computing 3B (discontinued)	2	**S/20**	No substitution			

* This course is offered on an occasional basis and the semester of offer on program and courses is indicative only. Dates of travel are likely to fall outside of standard teaching weeks. The course availability and details of the program will be advertised to students early in the semester prior to each planned trip. Students will be required to submit an application for approval to enrol in this course. For more information please email; studentenquiries@eecs.uq.edu.au.

✓/X	Part E – Majors	#	Last offered	If NOT completed, you can choose	Sem Offering	#	First offered
	DATA SCIENCE major 12 units for:						
	COMP3702 Artificial Intelligence	2		**COMP3702** Artificial Intelligence	2	2	
	COMP4702 Machine Learning	2		**COMP4702** Machine Learning	1	2	
	INFS2200 Relational Database Systems	2		**INFS2200** Relational Database Systems	2	2	
	INFS3200 Advanced Database Systems	2		**INFS3200** Advanced Database Systems	1	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	
	CYBER SECURITY major 12 units for:						
	COMP3301 Operating Systems Architecture	2		**COMP3301** Operating Systems Architecture	2	2	
	COMP3320 Vulnerability Assessment & Penetrating Testing	2		**COMP3320** Vulnerability Assessment & Penetrating Testing	1	2	
	COMS3000 Information Security (discontinued)	2	**2/20**	**CYBR3000** Information Security	2	2	**2/21**
	COMS3200 Computer Networks 1	2		**COMS3200** Computer Networks 1	1	2	
	COMS4507 Advanced Topics in Security	2		**COMS4507** Advanced Topics in Security	1	2	
	INFS2200 Relational Database Systems	2		**INFS2200** Relational Database Systems	2	2	
	PROGRAMMING LANGUAGES major 2 units from:						
	DECO2500 Human-Computer Interaction	2		**DECO2500** Human-Computer Interaction	1,2	2	
	INFS2200 Relational Database Systems	2		**INFS2200** Relational Database Systems	2	2	
	and 10 units for:						
	COMP3301 Operating Systems Architecture	2		**COMP3301** Operating Systems Architecture	2	2	
	COMP3400 Functional & Logic Programming	2		**COMP3400** Functional & Logic Programming	1	2	
	COMP4403 Compilers and Interpreters	2		**COMP4403** Compilers and Interpreters	1	2	
	CSSE3100 Reasoning About Programs	2		**CSSE3100** Reasoning About Programs	1	2	
	CSSE4630 Principles of Program Analysis	2		**CSSE4630** Principles of Program Analysis	2	2	
	MACHINE LEARNING major 12 units for:						
	COMP3710 Pattern Recognition and Analysis	2		**COMP3710** Pattern Recognition and Analysis	2	2	

	COMP3702 Artificial Intelligence	2		**COMP3702** Artificial Intelligence	2	2	
	COMP4702 Machine Learning	2		**COMP4702** Machine Learning	1	2	
	DECO2500 Human-Computer Interaction	2		**DECO2500** Human-Computer Interaction	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,S2	2	
	MATH2302 Discrete Mathematics II	2		**MATH2302** Discrete Mathematics II	2	2	
	SCIENTIFIC COMPUTING major 2 units from:						
	DECO2500 Human-Computer Interaction	2		**DECO2500** Human-Computer Interaction	1,2	2	
	INFS2200 Relational Database Systems	2		**INFS2200** Relational Database Systems	2	2	
	and 10 units for:						
	COSC2500 Numerical Methods in Computational Science	2		**COSC2500** Numerical Methods in Computational Science	2	2	
	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	
	MATH3201 Scientific Computing: Advanced Techniques and Applications	2		**MATH3201** Scientific Computing: Advanced Techniques and Applications	1	2	
	SCIE2100 Bioinformatics 1: Introduction	2		**SCIE2100** Bioinformatics 1: Introduction	1	2	