Transition Checklist – Bachelor of Computer Science

Student Name: _____

Student Number: _____

Date Completed: _____

Current students changing to the new 2026 program (2559)

IMPORTANT Notes:

- The information contained in this document is intended as general advice only. Students must follow the program and course requirements on Programs and Courses relevant to the year they commence or formally change to.
- 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 BCompSc Transition Plan to new program checklist (commencing 2026), you may email your checklist to the Faculty on enquiries@eait.uq.edu.au

Complete 48 units comprising:

- 24 units for all BCompSc Core Courses, and
- Either:
  - 16 units for one Major from BCompSc Major Option, or
  - 8 to 24 units for BCompSc No Major Option, 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.

✓/X	BCompSc Core Courses	Sem offering	Unit value	First offered	Approved substitution	Last offered
24 units for all Core Courses						
	COMP1100 Introduction to Software Innovation	1,2	2		Course must be completed	
	COMP2200 Ethical Practice in Computing	2	2	Sem 2, 2026	Course must be completed	
	COMP3506 Algorithms and 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	
	CSSE2310 Computer Systems Principles & Programming	1,2	2		Course must be completed	
	DECO2500 Human-Computer Interaction	1,2	2		Course must be completed	

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	DECO3801 Design Computing Studio 3 - Build	1,2	2		Course must be completed	
	INFS1200 Introduction to Information Systems	1,2	2		Course must be completed	
	MATH1061 Discrete Mathematics **OR** **MATH1081** Advanced Discrete Mathematics	1,2 1	2		Course must be completed	
	STAT1201 Analysis of Scientific Data **OR** **STAT1301** Advanced Analysis of Scientific Data	1,2,S 2	2		STAT2203 Probability Models & Data Analysis for Engineering	

BCompSc No Major Option

Complete 8 to 24 units comprising:

- 2 to 16 units for Computer Science Introductory Elective Courses
- 4 to 22 units from Computer Science Advanced Elective Courses

✓/ X	BCompSc No Major	Semester offering	Unit value	First offered	Approved substitution	Last offered
2 to 16 units of Computer Science Introductory Elective Courses						
	COMP2011 Fundamentals of Data Science	2	2	Sem 2, 2025	DATA2001 Fundamentals of Data Science	Sem 2, 2024
	COMP2048 Theory of Computing	1	2		No substitution	
	COMP2140 Web/Mobile Programming	2	2		No substitution	
	COMP2701 Generative Artificial Intelligence	1	2	Sem 1, 2026	No substitution	
	COSC2500 Numerical Methods in Computational Science	2	2		No substitution	
	DECO1400 Introduction to Web Design	1	2		No substitution	
	DECO2801 Human-Centred AI	2	2	Sem 2, 2025	No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
4 to 22 units of Computer Science Advanced Elective Courses						
	COMP3301 Operating Systems Architecture	2	2		No substitution	
	COMP3320 Vulnerability Assessment and Penetration Testing	1	2		No substitution	
	COMP3400 Functional and Logic Programming	1	2		No substitution	
	COMP3702 Artificial Intelligence	2	2		No substitution	
	COMP3710 Pattern Recognition and Analysis	2	2		No substitution	
	COMP3880 International Software Development 1	See note*	2		No substitution	
	COMP3881 International Software Development 2		2		No substitution	
	COMP4403 Compilers and Interpreters	1	2		No substitution	
	COMP4702 Machine Learning	1	2		No substitution	

	COMP4703 Natural Language Processing	2	2		No substitution	
	COMS3200 Computer Networks I	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		CSSE3002 The Software Process (discontinued)	Sem 1, 2020
	CSSE3100 Reasoning About Programs	1	2		No substitution	
	CSSE3610 Concurrency: Theory and Practice	2	2	Sem 2, 2026	No substitution	
	CSSE4630 Principles of Program Analysis	2	2		No substitution	
	CYBR3000 Information Security	2	2		COMS3000 Information Security (discontinued)	Sem 1, 2020
	DECO3500 Social and Mobile Computing	2	2		No substitution	
	INFS3200 Advanced Database Systems	1	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 & Applications	2	2		No substitution	
	MATH3202 Operations Research & Mathematical Planning	1	2		No substitution	
	MATH3302 Coding & Cryptography	1	2		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.

Artificial Intelligence Major

Complete 16 units comprising:

- 10 units for all Artificial Intelligence Compulsory Courses, and
- 4 to 6 units from Artificial Intelligence Elective Courses, and
- 0 to 2 units from BCompSc Program Elective Courses

✓/ X	**Artificial Intelligence Major**	Semester offering	Unit value	First offered	Approved substitution	Last offered
10 units for all Artificial Intelligence Compulsory Courses						
	COMP2701 Generative Artificial Intelligence	1	2	Sem 1, 2026	Course must be completed	
	COMP3702 Artificial Intelligence	2	2		Course must be completed	
	COMP4702 Machine Learning	1	2		Course must be completed	
	DECO2801 Human-Centred AI	2	2	Sem 2, 2025	Course must be completed	

	MATH1051 Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	1,2,S1	2		Course must be completed	
4 to 6 units of Artificial Intelligence Elective Courses						
	COMP3710 Pattern Recognition and Analysis	2	2		No substitution	
	COMP4703 Natural Language Processing	2	2		No substitution	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **OR** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	1,2,S2	2		No substitution	
	STAT3006 Statistical Learning	1	2		No substitution	
	STAT3007 Deep Learning	2	2		No substitution	

Cyber Security Major

Complete 16 units comprising:

- 10 units for all Cyber Security Compulsory Courses, and
- 4 to 6 units from Cyber Security Elective Courses, and
- 0 to 2 units from BCompSc Program Elective Courses

✓/ X	Cyber Security Major	Semester offering	Unit value	First offered	Approved substitution	Last offered
10 units for all Cyber Security Compulsory Courses						
	COMP3301 Operating Systems Architecture	2	2		Course must be completed	
	COMP3320 Vulnerability Assessment and Penetration Testing	1	2		Course must be completed	
	COMS3200 Computer Networks I	1	2		Course must be completed	
	CRIM1000 Introduction to Criminology	1,2	2		Course must be completed	
	CYBR3000 Information Security	2	2		COMS3000 Information Security (discontinued)	Sem 1, 2020
4 to 6 units of Cyber Security Elective Courses						
	BISM3205 Business Information Security	2	2		No substitution	
	DECO2840 Cyber Studio	1	2	Sem 1,2027	No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	INFS3208 Cloud Computing	2	2		No substitution	
	MATH1051 Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	1,2,S1	2		No substitution	
	MATH2301 Linear & Abstract Algebra & Number Theory	1	2		No substitution	
	MATH3302 Coding & Cryptography	1	2		No substitution	

Data Science Major

Complete 16 units comprising:

- 12 units for all Data Science Compulsory Courses, and
- 2 to 4 Data Science Elective Courses, and
- 0 to 2 units from BCompSc Program Elective Courses

✓/ X	Data Science Major	Semester offering	Unit value	First offered	Approved substitution	Last offered
12 units for all Data Science Compulsory Courses						
	COMP2011 Fundamentals of Data Science	2	2	Sem 2, 2025	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 I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	1,2,S1	2		Course must be completed	
	STAT2003 Mathematical Probability	1	2		Students who have completed STAT2203 towards BCompSc core courses (i.e. in place of STAT1201 or STAT1301) are exempt completing STAT2003 towards this major and must complete a BCompSc Introductory Elective or BCompSc Advanced Elective instead. Students who have completed STAT1201 or STAT1301 towards the core course must complete STAT2003.	
	STAT2004 Statistical Modelling & Analysis	2	2		Course must be completed	
2 to 4 units of Data Science Elective Courses						
	COMP4702 Machine Learning	1	2		No substitution	
	COMP4703 Natural Language Processing	2	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	

Programming Theory Major

Complete 16 units comprising:

- 12 units for all Programming Theory Compulsory Courses, and
- 2 to 4 Programming Theory e Elective Courses, and
- 0 to 2 units from BCompSc Program Elective Courses

✓/ X	Programming Theory Major	Semester	Unit value	First offered	Approved substitution	Last offered
12 units for all Programming Theory Compulsory Courses						
	COMP3400 Functional and Logic Programming	1	2		Course must be completed	

	COMP4403 Compilers and Interpreters	1	2		Course must be completed	
	CSSE3100 Reasoning About Programs	1	2		Course must be completed	
	CSSE3610 Concurrency: Theory and Practice	2	2		Course must be completed	
	CSSE4630 Principles of Program Analysis	2	2		Course must be completed	
	MATH3306 Set Theory & Mathematical Logic	2	2		Course must be completed	
2 to 4 units of Programming Theory Elective Courses						
	COMP2140 Web/Mobile Programming	2	2		No substitution	
	COMP3301 Operating Systems Architecture	2	2		No substitution	
	DECO1400 Introduction to Web Design	1	2		No substitution	
	MATH2302 Discrete Mathematics II	2	2		No substitution	

Breadth Electives

- 0 to 16 from BCompSc Breadth Elective Courses

✓/ X	Breadth Electives	Semester offering	Unit value	First offered	Approved substitution	Last offered
	COMP1200 Introduction to Computational Thinking	1,2	2	2027	No substitution	
	COMP3820 Digital Health Software Project	2	2		No substitution	
	DECO1100 Design Thinking	1	2		No substitution	
	DECO1800 Design Computing Studio I - Interactive Technology	2	2		No substitution	
	DECO2300 Digital Prototyping and Extended Reality	2	2		No substitution	
	DECO2850 Design Computing Studio 2 - Interaction Design	2	2		DECO2800 Design Computing Studio 2 – Testing & Evaluation (Discontinued)	Sem 2, 2022
	DECO3850 Physical Computing Studio	1	4		No substitution	
	ENGG1300 Introduction to Electrical Systems	1,2	2		No substitution	
	MATH1050 Mathematical Foundations II	1,2	2		No substitution	
	MATH1051 Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	1,2,S1	2		Course must be completed	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **OR** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	1,2,S2	2		No substitution	
	MATH2001 Calculus & Linear Algebra II **OR** **MATH2901** Advanced Calculus & Linear Algebra II	1,2,S1	2		MATH2000 Calculus & Linear Algebra II (Discontinued)	Sem 2, 2020
	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 Bioinformatics 1: Introduction	1	2		No substitution	
	STAT2003 Mathematical Probability	1	2		No substitution	
	STAT2004 Statistical Modelling & Analysis	2	2		No substitution	

Program Electives

- 0 to 16 from BCompSc Program Elective Courses (any courses on the BCompSc course list)

General Electives

- 0 to 16 from General Elective Courses (courses from any undergraduate program at the university, considering prerequisites, incompatibles and restrictions).