

# CHECKLIST Bachelor of Computer Science – Completion of pre-2021 program (2425)

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

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 parts B, C and D or other courses approved by the Executive Dean

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

✓/X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered	✓/X compl.
	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		
	COMP2310 Computers Systems Principles and Programming	2		COMP2310 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	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	2		
	MATH1061 Discrete Mathematics	2		MATH1061 Discrete Mathematics	1,2	2		
	STAT2203 Probability Models & Data Analysis for Engineering	2		STAT2203 Probability Models & Data Analysis for Engineering	2	2		
<b>Part A units completed pre-2021:</b>				<b>Part A units to be substituted/completed:</b>				
				<b>Total Part A (must add up to 24 units):</b>				

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): \_\_\_\_\_

✓/X compl.	Part B – Introductory Electives	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered	✓/X compl.
	6 units comprising at least 2 units from							
	DECO2500 Human-Computer Interaction	2		DECO2500 Human-Computer Interaction	1	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 Introduction to Bioinformatics	1	2		
✓/X compl.	Part C – Advanced Electives	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered	✓/X compl.
	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 and Software Engineering	2		CSSE3006 Special Projects in Computer Systems and Software Engineering	1,2	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		
	DECO2800 Design Computing Studio 2 – Testing & Evaluation	2		DECO2800 Design Computing Studio 2 – Testing & Evaluation	2	2		

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**BCompSc Transition Plan –continuation**

**Checked by (Faculty: Name and Date):** \_\_\_\_\_

	<b>DECO3500</b> Social & Mobile Computing	2		<b>DECO3500</b> Social & Mobile Computing	2	2		
	<b>INFS3200</b> Advanced Database Systems	2		<b>INFS3200</b> Advanced Database Systems	1,2	2		
	<b>INFS3202</b> Web Information Systems	2		<b>INFS3202</b> Web Information Systems	1	2		
	<b>INFS3208</b> Cloud Computing	2		<b>INFS3208</b> Cloud Computing	2	2		
	<b>INFS4203</b> Data Mining	2		<b>INFS4203</b> Data Mining	2	2		
	<b>INFS4205</b> Advanced Techniques for High Dimensional Data	2		<b>INFS4205</b> Advanced Techniques for High Dimensional Data	1	2		
	<b>MATH3201</b> Scientific Computing: Advanced Techniques and Applications	2		<b>MATH3201</b> Scientific Computing: Advanced Techniques and Applications	1	2		
	<b>MATH3202</b> Operations Research & Mathematical Planning	2		<b>MATH3202</b> Operations Research & Mathematical Planning	1	2		
	<b>MATH3302</b> Coding & Cryptography	2		<b>MATH3302</b> Coding & Cryptography	1	2		
✓/X compl.	Part D – Other Electives	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered	✓/X compl.
	<b>ACCT1001</b> Accounting for Decision Making	2		<b>ACCT1001</b> Accounting for Decision Making	1,2	2		
	<b>BIOL1020</b> Genes, Cells & Evolution	2		<b>BIOL1020</b> Genes, Cells & Evolution	1,2	2		
	<b>BIOL2202</b> Genetics	2		<b>BIOL2202</b> Genetics	2	2		
	<b>BIOL3004</b> Genomics & Bioinformatics (discontinued)	2	1/20	<b>BIOL3303</b> Genomics	1	2	1/21	
	<b>BIOL3014</b> Advanced Bioinformatics (discontinued)	2	2/20	<b>BINF3014</b> Advanced Bioinformatics	2	2	2/21	
	<b>BISM3205</b> Business Information Security	2		<b>BISM3205</b> Business Information Security	1	2		
	<b>BISM3222</b> Information Analysis and System Design	2		<b>BISM3222</b> Information Analysis and System Design	1	2		
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2		
	<b>COMU1130</b> Connectivity and Culture	2		<b>COMU1130</b> Connectivity and Culture	2	2		
	<b>COMU1140</b> Multimedia	2		<b>COMU1140</b> Multimedia	1,2,S	2		
	<b>DECO1100</b> Design Thinking	2		<b>DECO1100</b> Design Thinking	1	2		
	<b>DECO1400</b> Introduction to Web Design	2		<b>DECO1400</b> Introduction to Web Design	1	2		
	<b>DECO1800</b> Design Computing Studio 1 – Interactive Technology	2		<b>DECO1800</b> Design Computing Studio 1 – Interactive Technology	2	2		
	<b>DECO2300</b> Digital Prototyping	2		<b>DECO2300</b> Digital Prototyping	2	2		
	<b>DECO3850</b> Physical Computing & Interaction Design Studio	4		<b>DECO3850</b> Physical Computing & Interaction Design Studio	1	4		
	<b>ECON1010</b> Introductory Microeconomics	2		<b>ECON1010</b> Introductory Microeconomics	1,2,S	2		

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	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2		
	<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2		<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2	2		
	<b>LAWS1100</b> Business Law	2		<b>LAWS1100</b> Business Law	1,2	2		
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations	1,2	2		
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations	2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations	1,2	2		
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued)	2	<b>2/20</b>	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2		
	<b>MATH2301</b> Linear & Abstract Algebra & Number Theory	2		<b>MATH2301</b> Linear & Abstract Algebra & Number Theory	1	2		
	<b>MATH2302</b> Discrete Mathematics II	2		<b>MATH2302</b> Discrete Mathematics II	2	2		
	<b>MATH3104</b> Mathematical Biology	2		<b>MATH3104</b> Mathematical Biology	1	2		
	<b>MGTS1301</b> Introduction to Management	2		<b>MGTS1301</b> Introduction to Management	1,2	2		
	<b>MKTG1501</b> Foundations of Marketing	2		<b>MKTG1501</b> Foundations of Marketing	1,2	2		
	<b>PHYS1002</b> Electromagnetism & Modern Physics	2		<b>PHYS1002</b> Electromagnetism & Modern Physics (semester 2 only from 2022)	1,2	2		
	<b>SCIE1000</b> Theory & Practice in Science	2		<b>SCIE1000</b> Theory & Practice in Science	1,2,S	2		
	<b>STAT2003</b> Mathematical Probability	2		<b>STAT2003</b> Mathematical Probability	1	2		
	<b>STAT2004</b> Statistical Modelling & Analysis	2		<b>STAT2004</b> Statistical Modelling & Analysis	2	2		
	<b>TIMS3309</b> Fundamentals of Technology and Innovation Management	2		<b>TIMS3309</b> Fundamentals of Technology and Innovation Management	2	2		
	Courses offered on an occasional basis							
	<b>COMP2000</b> Special Topics in Computer Science 2A	2		<b>COMP2000</b> Special Topics in Computer Science 2A		2		
	<b>COMP2001</b> Special Topics in Computer Science 2B	2		<b>COMP2001</b> Special Topics in Computer Science 2B		2		
	<b>COMP3000</b> Special Topics in Computer Science 3A	2		<b>COMP3000</b> Special Topics in Computer Science 3A		2		
	<b>COMP3001</b> Special Topics in Computer Science 3B	2		<b>COMP3001</b> Special Topics in Computer Science 3B		2		
	<b>COMP3880</b> International Software Development	2		<b>COMP3880</b> International Software Development		2		
	<b>CSSE3006</b> Special Projects in Computer Systems and Software Engineering	2		<b>CSSE3006</b> Special Projects in Computer Systems and Software Engineering		2		
	<b>CSSE3080</b> Special Topics in Computer Systems 3A	2		<b>CSSE3080</b> Special Topics in Computer Systems 3A		2		
	<b>CSSE3081</b> Special Topics in Computer Systems 3B	2		<b>CSSE3081</b> Special Topics in Computer Systems 3B		2		
	<b>CSSE3090</b> Special Topics in Software Engineering 3A	2		<b>CSSE3090</b> Special Topics in Software Engineering 3A		2		
	<b>CSSE3091</b> Special Topics in Software Engineering 3B	2		<b>CSSE3091</b> Special Topics in Software Engineering 3B		2		
	<b>DECO2000</b> Special Topics in Design Computing 2A	2		<b>DECO2000</b> Special Topics in Design Computing 2A		2		

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	<b>DECO2001</b> Special Topics in Design Computing 2B	2		<b>DECO2001</b> Special Topics in Design Computing 2B		2		
	<b>DECO3000</b> Special Topics in Design Computing 3A	2		<b>DECO3000</b> Special Topics in Design Computing 3A		2		
	<b>DECO3001</b> Special Topics in Design Computing 3B	2		<b>DECO3001</b> Special Topics in Design Computing 3B		2		

✓/X compl.	Part E – Majors	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered	✓/X compl.
✓/X compl.	Major in DATA SCIENCE (12 units)							
	12 units for:							
	<b>COMP3702</b> Artificial Intelligence	2		<b>COMP3702</b> Artificial Intelligence	2	2		
	<b>COMP4702</b> Machine Learning	2		<b>COMP4702</b> Machine Learning	1	2		
	<b>INFS2200</b> Relational Database Systems	2		<b>INFS2200</b> Relational Database Systems	2	2		
	<b>INFS3200</b> Advanced Database Systems	2		<b>INFS3200</b> Advanced Database Systems	2	2		
	<b>INFS4203</b> Data Mining	2		<b>INFS4203</b> Data Mining	2	2		
	<b>INFS4205</b> Advanced Techniques for High Dimensional Data	2		<b>INFS4205</b> Advanced Techniques for High Dimensional Data	1	2		
✓/X compl.	Major in CYBER SECURITY (12 units)							
	12 units for:							
	<b>COMP3301</b> Operating Systems Architecture	2		<b>COMP3301</b> Operating Systems Architecture	2	2		
	<b>COMP3320</b> Vulnerability Assessment & Penetrating Testing	2		<b>COMP3320</b> Vulnerability Assessment & Penetrating Testing	1	2		
	<b>COMS3000</b> Information Security (discontinued)	2	2/20	<b>CYBR3000</b> Information Security	2	2	2/21	
	<b>COMS3200</b> Computer Networks 1	2		<b>COMS3200</b> Computer Networks 1	1	2		
	<b>COMS4507</b> Advanced Topics in Security	2		<b>COMS4507</b> Advanced Topics in Security	1	2		
	<b>INFS2200</b> Relational Database Systems	2		<b>INFS2200</b> Relational Database Systems	2	2		
✓/X compl.	Major in PROGRAMMING LANGUAGES (12 units)							✓/X compl.
	12 units comprising - 2 units from:							
	<b>DECO2500</b> Human-Computer Interaction	2		<b>DECO2500</b> Human-Computer Interaction	1	2		
	<b>INFS2200</b> Relational Database Systems	2		<b>INFS2200</b> Relational Database Systems	2	2		
	and 10 units for:							
	<b>COMP3301</b> Operating Systems Architecture	2		<b>COMP3301</b> Operating Systems Architecture	2	2		

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	<b>COMP3400</b> Functional & Logic Programming	2		<b>COMP3400</b> Functional & Logic Programming	1	2		
	<b>COMP4403</b> Compilers and Interpreters	2		<b>COMP4403</b> Compilers and Interpreters	1	2		
	<b>CSSE3100</b> Reasoning About Programs	2		<b>CSSE3100</b> Reasoning About Programs	1	2		
	<b>CSSE4630</b> Principles of Program Analysis	2		<b>CSSE4630</b> Principles of Program Analysis	2	2		
✓/X compl.	Major in MACHINE LEARNING (12 units)							✓/X compl.
	12 units for:							
	<b>COMP3710</b> Pattern Recognition and Analysis	2		<b>COMP3710</b> Pattern Recognition and Analysis	2	2		
	<b>COMP3702</b> Artificial Intelligence	2		<b>COMP3702</b> Artificial Intelligence	2	2		
	<b>COMP4702</b> Machine Learning	2		<b>COMP4702</b> Machine Learning	1	2		
	<b>DECO2500</b> Human-Computer Interaction	2		<b>DECO2500</b> Human-Computer Interaction	1	2		
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations <b>OR MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations <b>OR MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		
	<b>MATH2302</b> Discrete Mathematics II	2		<b>MATH2302</b> Discrete Mathematics II	2	2		
✓/X compl.	Major in SCIENTIFIC COMPUTING (12 units)							✓/X compl.
	12 units comprising - 2 units from:							
	<b>DECO2500</b> Human-Computer Interaction	2		<b>DECO2500</b> Human-Computer Interaction	1	2		
	<b>INFS2200</b> Relational Database Systems	2		<b>INFS2200</b> Relational Database Systems	2	2		
	and 10 units for:							
	<b>COSC2500</b> Numerical Methods in Computational Science	2		<b>COSC2500</b> Numerical Methods in Computational Science	2	2		
	<b>COSC3000</b> Visualization, Computer Graphics & Data Analysis	2		<b>COSC3000</b> Visualization, Computer Graphics & Data Analysis	2	2		
	<b>COSC3500</b> High-Performance Computing	2		<b>COSC3500</b> High-Performance Computing	2	2		
	<b>MATH3201</b> Scientific Computing: Advanced Techniques and Applications	2		<b>MATH3201</b> Scientific Computing: Advanced Techniques and Applications	1	2		
	<b>SCIE2100</b> Bioinformatics 1: Introduction	2		<b>SCIE2100</b> Bioinformatics 1: Introduction	1	2		

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