CHECKLIST Bachelor of Computer Science – 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 rules & requirements listed on the Programs and Courses Website relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these 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.

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

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
	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	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	2	2	

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✓/X compl.	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	
	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 compl.	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 and 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	

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	Course	#		Course	Sem Offering	#	
	DECO2800 Design Computing Studio 2 – Testing & Evaluation	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	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 and 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 compl.	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**	**BINF3014** Advanced Bioinformatics (discontinued)	2	2	
	BISM3205 Business Information Security	2		**BISM3205** Business Information Security	1	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,S	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** Design Computing Studio 1 – Interactive Technology	2	2	
	DECO2300 Digital Prototyping	2		**DECO2300** Digital Prototyping and Extended Reality	2	2	

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	Course	Units		Course	Sem	Units	
	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	2		**ENGG1600** Introduction to Research Practices - The Big Issues	2	2	
	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	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 (semester 2 only from 2022)	1,2	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	2		**COMP2000** Special Topics in Computer Science 2A		2	
	COMP2001 Special Topics in Computer Science 2B	2		**COMP2001** Special Topics in Computer Science 2B		2	
	COMP3000 Special Topics in Computer Science 3A	2		**COMP3000** Special Topics in Computer Science 3A		2	
	COMP3001 Special Topics in Computer Science 3B	2		**COMP3001** Special Topics in Computer Science 3B		2	
	COMP3880 International Software Development	2		**COMP3880** International Software Development		2	
	CSSE3006 Special Projects in Computer Systems and Software Engineering	2		**CSSE3006** Special Projects in Computer Systems and Software Engineering		2	
	CSSE3080 Special Topics in Computer Systems 3A	2		**CSSE3080** Special Topics in Computer Systems 3A		2	
	CSSE3081 Special Topics in Computer Systems 3B	2		**CSSE3081** Special Topics in Computer Systems 3B		2	

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	CSSE3090 Special Topics in Software Engineering 3A	2		**CSSE3090** Special Topics in Software Engineering 3A		2	
	CSSE3091 Special Topics in Software Engineering 3B	2		**CSSE3091** Special Topics in Software Engineering 3B		2	
	DECO2000 Special Topics in Design Computing 2A	2		**DECO2000** Special Topics in Design Computing 2A		2	
	DECO2001 Special Topics in Design Computing 2B	2		**DECO2001** Special Topics in Design Computing 2B		2	
	DECO3000 Special Topics in Design Computing 3A	2		**DECO3000** Special Topics in Design Computing 3A		2	
	DECO3001 Special Topics in Design Computing 3B	2		**DECO3001** Special Topics in Design Computing 3B		2	

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✓/X compl.	Part E – Majors	#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered
	Major in DATA SCIENCE (12 units)						
	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	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	

✓/X compl.		#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered
	Major in CYBER SECURITY (12 units)						
	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	

✓/X compl.		#	Last offered	If NOT completed you can choose	Sem Offering	#	First offered
	Major in PROGRAMMING LANGUAGES (12 units)						
	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 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	

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CSSE3100 Reasoning About Programs	2		**CSSE3100** Reasoning About Programs	1	2	
CSSE4630 Principles of Program Analysis	2		**CSSE4630** Principles of Program Analysis	2	2	

Major in MACHINE LEARNING (12 units)						
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	
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	2	
MATH2302 Discrete Mathematics II	2		**MATH2302** Discrete Mathematics II	2	2	

Major in SCIENTIFIC COMPUTING (12 units)						
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 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	2	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	

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