

Bachelor of Computer Science

No Major Option

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Extension Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	Elective Program or General
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	Elective Program or General	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	Elective Program or General	Elective Program or General	Elective Program or General
Year 3	Sem 1 Feb	Elective Program or General	Elective Program or General	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	Elective Program or General	Elective Program or General	Elective Program or General

Course offered in both Semester 1



Seek academic advice if you are undertaking a dual degree, have any questions or if you fail any courses.

Email studentenquiries@eecs.uq.edu.au to make an advising appointment.

Students must follow the program rules. Future course offerings are subject to change.

Note: Of the 48 units required for the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Study plan published 2024.

2 Choose at 4 - 8 courses from **Introductory Computer Science Electives** for some free slots, accounting for prerequisites:

Sem 1	DECO1400	MATH1071**	
Sem 2	COMP1100 COMP2140	COSC2500 INFS2200	DATA2001
Sem 1+2	CSSE2310	DECO2500	MATH1051**

** You can only take one of MATH1051 or MATH1071

3 Choose at least 6 courses from **Advanced Computer Science Electives** for some free slots, accounting for prerequisites:

Sem 1	COMP3320 COMP3400 COMP4403 COMP4702 INFS4205	COSC3000 COSC3500 MATH3201 MATH3202 MATH3302	COMS3200 CSSE3100 CSSE3012 INFS3202
Sem 2	COMP3702 COMP3820 COMP3301	COMP3710 COMP4703 CYBR3000	DECO3500 CSSE3200 INFS3208 INFS4203
Sem 1+2	INFS3200		

4 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*STAT1301 Advanced Analysis of Scientific Data may be taken in place of STAT1201 (only in Semester 2)

Bachelor of Computer Science

Major in Machine Learning

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	MATH1052* Multivariate Calculus & Ordinary Diff Equations 
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	Elective Program or General	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3702 Artificial Intelligence	MATH2302 Discrete Mathematics II	Elective Program or General
Year 3	Sem 1 Feb	COMP4702 Machine Learning	Elective Program or General	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3710 Pattern Recognition & Analysis	STAT3006 Statistical Learning	Elective Program or General

Course offered in both Semester 1

2 All required **Major Courses** are in the plan.

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Students must follow the program rules. Future course offerings are subject to change.

Study plan published 2024.

Bachelor of Computer Science

Major in Scientific Computing

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	MATH1052* Multivariate Calculus & Ordinary Diff Equations 
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	SCIE2100 Bioinformatics 1: Introduction	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COSC2500 Numerical Methods in Computational Science	INFS2200 Relational Database Systems	Elective Program or General
Year 3	Sem 1 Feb	COSC3000 Visualisation, Computer Graphics & Data Analysis	Elective Program or General	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COSC3500 High Performance Computing	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 All required **Major Courses** are in the plan.

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Data Science

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	STAT2003 Mathematical Probability	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	DATA2001 Fundamentals of Data Science	INFS2200 Relational Database Systems	STAT2004 Statistical Modelling & Analysis
Year 3	Sem 1 Feb	COMP4702 Machine Learning	INFS3200 Advanced Database Systems 	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	Elective Program or General	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 All required **Major Courses** are in the plan.

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Cyber Security

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	Elective Program or General
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming 	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	CYBR3000 Information Security	Elective Program or General	Elective Program or General
Year 3	Sem 1 Feb	COMS3200 Computer Networks I	COMP3320 Vulnerability Assessment & Penetration Testing	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3301 Operating Systems Architecture	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 Choose 2 remaining **Major Courses** for some free slots, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **CRIM1000** **DECO2500**

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Programming Languages

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	Elective Program or General
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming 	DECO1400 Introduction to Web Design	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP2140 Web/Mobile Programming	Elective Program or General	Elective Program or General
Year 3	Sem 1 Feb	COMP3400 Functional & Logic Programming	COMP4403 Compilers & Interpreters	CSSE3100 Reasoning about Programs	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	Elective Program or General	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 Choose 1 remaining **Major Course** for a free slot, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **DECO2500**

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Students must follow the program rules. Future course offerings are subject to change.

Study plan published 2024.

Bachelor of Computer Science

Extended Major in Data Science

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	STAT2003 Mathematical Probability	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	DATA2001 Fundamentals of Data Science	INFS2200 Relational Database Systems	STAT2004 Statistical Modelling & Analysis
Year 3	Sem 1 Feb	COMP4702 Machine Learning	INFS3200 Advanced Database Systems 	INFS4205 Advanced Techniques for High Dimensional Data	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3702 Artificial Intelligence	INFS4203 Data Mining	INFS3208 Cloud Computing

Course offered in both Semester 1

2 All required **Major Courses** are in the plan.

3 Fill the remaining free slots with **Program Electives** or **General Electives** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Study plan published 2024.

Bachelor of Computer Science

Major in Machine Learning + Major in Scientific Computing

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	MATH2302 Discrete Mathematics II
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	MATH1052* Multivariate Calculus & Ordinary Diff Equations 	SCIE2100 Bioinformatics 1: Introduction	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3702 Artificial Intelligence	COSC2500 Numerical Methods in Computational Science	INFS2200 Relational Database Systems
Year 3	Sem 1 Feb	COMP4702 Machine Learning	COSC3000 Visualisation, Computer Graphics & Data Analysis	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3710 Pattern Recognition & Analysis	STAT3006 Statistical Learning	COSC3500 High-performance Computing

Course offered in both Semester 1

2 All **Primary major** courses are in the plan.

3 All **Secondary major** courses are in the plan.

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **MATH1051 (Level 1)**, **MATH1052 (Level 1)**, **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Machine Learning + Major in Programming Languages

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	MATH1052* Multivariate Calculus & Ordinary Diff Equations 
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming	DECO1400 Introduction to Web Design	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3702 Artificial Intelligence	MATH2302 Discrete Mathematics II	COMP2140 Web & Mobile Programming
Year 3	Sem 1 Feb	COMP4702 Machine Learning	COMP3400 Functional & Logic Programming	COMP4403 Compilers & Interpreters	CSSE3100 Reasoning about Programs
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3710 Pattern Recognition & Analysis	STAT3006 Statistical Learning	Elective Program or General

Course offered in both Semester 1

2 All **Primary major** courses are in the plan.

3 Choose 1 remaining **Secondary Major Course** for a free slot, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **DECO2500**

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Machine Learning + Major in Data Science

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	MATH2302 Discrete Mathematics II
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	MATH1052* Multivariate Calculus & Ordinary Diff Equations 	STAT2003 Mathematical Probability	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	STAT2004 Statistical Modelling & Analysis	DATA2001 Fundamentals of Data Science	INFS2200 Relational Database Systems
Year 3	Sem 1 Feb	COMP4702 Machine Learning	INFS3200 Advanced Database Systems 	Elective Program or General	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3710 Pattern Recognition & Analysis	STAT3006 Statistical Learning	COMP3702 Artificial Intelligence

Course offered in both Semester 1

2 All **Primary major** courses are in the plan.

3 All **Secondary major** courses are in the plan.

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **MATH1051 (Level 1)**, **DECO3801 (Level 3)**, **COMP4702 (Level 4)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Study plan published 2024.

Bachelor of Computer Science

Major in Machine Learning + Major in Cyber Security

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering	INFS1200 Introduction to Information Systems	STAT1201* Analysis of Scientific Data	MATH1051* Calculus & Linear Algebra I
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics	CSSE2010 Introduction to Computer Systems	MATH1052* Multivariate Calculus & Ordinary Diff Equations
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming	Elective Program or General	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3702 Artificial Intelligence	MATH2302 Discrete Mathematics II	CYBR3000 Information Security
Year 3	Sem 1 Feb	COMP4702 Machine Learning	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3710 Pattern Recognition & Analysis	STAT3006 Statistical Learning	COMP3301 Operating Systems Architecture

Course offered in both Semester 1

2 All **Primary major** courses are in the plan.

3 Choose 2 remaining **Secondary Major Courses** for some free slots, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **CRIM1000** **DECO2500**

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

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Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Scientific Computing + Major in Programming Languages

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering	INFS1200 Introduction to Information Systems	STAT1201* Analysis of Scientific Data	MATH1051* Calculus & Linear Algebra I
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics	CSSE2010 Introduction to Computer Systems	MATH1052* Multivariate Calculus & Ordinary Diff Equations
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	SCIE2100 Bioinformatics 1: Introduction	CSSE2310 Computer Systems Principles & Programming	DECO1400 Introduction to Web Design
	Sem 2 July	COMP3506 Algorithms & Data Structures	COSC2500 Numerical Methods in Computational Science	INFS2200 Relational Database Systems	COMP2140 Web & Mobile Programming
Year 3	Sem 1 Feb	COSC3000 Visualisation, Computer Graphics & Data Analysis	COMP3400 Functional & Logic Programming	COMP4403 Compilers & Interpreters	CSSE3100 Reasoning about Programs
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COSC3500 High Performance Computing	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 All required **Primary Major** courses are in the plan.

3 Choose 1 remaining **Secondary Major** Course for a free slot, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **DECO2500**

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

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General electives can be chosen from across the university - paying attention to pre-requisites and level.

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Bachelor of Computer Science

Major in Scientific Computing + Major in Data Science

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering	INFS1200 Introduction to Information Systems	STAT1201* Analysis of Scientific Data	MATH1051* Calculus & Linear Algebra I
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics	CSSE2010 Introduction to Computer Systems	MATH1052* Multivariate Calculus & Ordinary Diff Equations
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	SCIE2100 Bioinformatics 1: Introduction	STAT2003 Mathematical Probability	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COSC2500 Numerical Methods in Computational Science	INFS2200 Relational Database Systems	DATA2001 Fundamentals of Data Science
Year 3	Sem 1 Feb	COSC3000 Visualisation, Computer Graphics & Data Analysis	COMP4702 Machine Learning	INFS3200 Advanced Database Systems	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COSC3500 High Performance Computing	STAT2004 Statistical Modelling & Analysis	Elective Program or General

Course offered in both Semester 1

2 All required **Primary Major courses** are in the plan.

3 All **Secondary Major courses** are in the plan.

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **MATH1051 (Level 1)**, **INFS2200 (Level 2)**, **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

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General electives can be chosen from across the university - paying attention to pre-requisites and level.

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MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Bachelor of Computer Science

Major in Scientific Computing + Major in Cyber Security

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering	INFS1200 Introduction to Information Systems	STAT1201* Analysis of Scientific Data	MATH1051* Calculus & Linear Algebra I
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics	CSSE2010 Introduction to Computer Systems	MATH1052* Multivariate Calculus & Ordinary Diff Equations
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	SCIE2100 Bioinformatics 1: Introduction	CSSE2310 Computer Systems Principles & Programming	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COSC2500 Numerical Methods in Computational Science	INFS2200 Relational Database Systems	CYBR3000 Information Security
Year 3	Sem 1 Feb	COSC3000 Visualisation, Computer Graphics & Data Analysis	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	Elective Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COSC3500 High Performance Computing	COMP3301 Operating Systems Architecture	Elective Program or General

Course offered in both Semester 1

2 All required **Primary Major Courses** are in the plan.

3 Choose 2 remaining **Secondary Major Courses** for some free slots, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **CRIM1000** **DECO2500**

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

Seek academic advice if you are undertaking a dual degree, have any questions or if you fail any courses.

Email studentenquiries@eecs.uq.edu.au to make an advising appointment.

Students must follow the program rules. Future course offerings are subject to change.

Study plan published 2024.

Bachelor of Computer Science

Major in Programming Languages + Major in Data Science

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering	INFS1200 Introduction to Information Systems	STAT1201* Analysis of Scientific Data	MATH1051* Calculus & Linear Algebra I
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics	CSSE2010 Introduction to Computer Systems	DECO2500 Human-Computer Interaction
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming	DECO1400 Introduction to Web Design	STAT2003 Mathematical Probability
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP2140 Web/Mobile Programming	INFS2200 Relational Database Systems	DATA2001 Fundamentals of Data Science
Year 3	Sem 1 Feb	COMP3400 Functional & Logic Programming	COMP4403 Compilers & Interpreters	CSSE3100 Reasoning about Programs	COMP4702 Machine Learning
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	INFS3200 Advanced Database Systems	STAT2004 Statistical Modelling & Analysis	Elective Program or General

Course offered in both Semester 1

2 All required **Primary Major courses** are in the plan.

3 All **Secondary Major courses** are in the plan.

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Study plan published 2024.

Bachelor of Computer Science

Major in Programming Languages + Major in Cyber Security

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering ¹⁺²	INFS1200 Introduction to Information Systems ¹⁺²	STAT1201* Analysis of Scientific Data ¹⁺²	DECO1400 Introduction to Web Design
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics ¹⁺²	CSSE2010 Introduction to Computer Systems ¹⁺²	Elective Program or General
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming ¹⁺²	CSSE3100 Reasoning about Programs	Elective Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP2140 Web/Mobile Programming	CYBR3000 Information Security	Elective Program or General
Year 3	Sem 1 Feb	COMP3400 Functional & Logic Programming	COMP4403 Compilers & Interpreters	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	COMP3301 Operating Systems Architecture	Elective Program or General	Elective Program or General

Course offered in both Semester 1

2 Choose 1 remaining **Primary Major Course** for a free slot, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **DECO2500**

3 Choose 2 remaining **Secondary Major Courses** for some free slots, accounting for prerequisites:

Sem 2 **INFS2200**

Sem 1+2 **CRIM1000** **DECO2500**

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **CSSE2310 (Level 2)**, **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Program electives are explicitly listed in the program rules.

General electives can be chosen from across the university - paying attention to pre-requisites and level.

*Advanced version of course available:

STAT1301 may be taken in place of STAT1201 (in Sem 2 only)

MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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Study plan published 2024.

Bachelor of Computer Science

Major in Data Science + Major in Cyber Security

Commencing Semester 1

1 The study plan below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	CSSE1001 Introduction to Software Engineering 	INFS1200 Introduction to Information Systems 	STAT1201* Analysis of Scientific Data 	MATH1051* Calculus & Linear Algebra I 
	Sem 2 July	CSSE2002 Programming in the Large	MATH1061 Discrete Mathematics 	CSSE2010 Introduction to Computer Systems 	CRIM1000 Introduction to Criminology 
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	STAT2003 Mathematical Probability	CSSE2310 Computer Systems Principles & Programming 	DECO2500 Human-Computer Interaction 
	Sem 2 July	COMP3506 Algorithms & Data Structures	DATA2001 Introduction to Data Science	INFS2200 Relational Database Systems	CYBR3000 Information Security
Year 3	Sem 1 Feb	COMP4702 Machine Learning	INFS3200 Advanced Database Systems 	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I
	Sem 2 July	DECO3801 Design Computing Studio 3: Build	STAT2004 Statistical Modelling & Analysis	COMP3301 Operating Systems Architecture	Elective Program or General

Course offered in both Semester 1

2 All required **Primary Major courses** are in the plan.

3 All **Secondary Major courses** are in the plan.

4 Fill the remaining free slots with **Program Electives** at the same level or higher to replace the courses shared between majors: **DECO3801 (Level 3)** from the [BCompSci Program Rules & Requirements](#).

Note: Of the 48 units required for the the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

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MATH1072 may be taken in place of MATH1052 (in Sem 2 only)

MATH1071 may be taken in place of MATH1051 (in Sem 1 only)

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