Bachelor of Computer Science

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

Major in Scientific Computing

Commencing Semester 1

1 The study plan below shows the required: | **Core Courses** | **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`	MATH1051* Calculus and Linear Algebra I `1+2`
	Sem 2 July	COMP1100 Introduction to Software Innovatio `1+2`	MATH1061* Discrete Mathematics `1+2`	CSSE2010 Introduction to Computer Systems `1+2`	CSSE2002 Programming in the Large `1+2`
Year 2	**Sem 1** Feb	COMP2048 Theory of Computing	MATH1052* Multivariate Calculus & Ordinary Differential Equations `1+2`	SCIE2100 Bioinformatics 1: Introduction	Elective Breadth, Program or General
	Sem 2 July	COMP3506 Algorithms & Data Structures	COSC2500 Numerical Methods in Computational Science	Elective Breadth, Program or General	Elective Breadth, Program or General
Year 3	**Sem 1** Feb	COSC3000 Visualisation, Computer Graphics & Data Analysis	Elective Breadth, Program or General	Elective Breadth, Program or General	Elective Breadth, Program or General
	Sem 2 July	DECO3801 Design Computing Studio 3: Build `1+2`	COSC3500 High-Performance Computing	Elective Breadth, Program or General	Elective Breadth, Program or General

Course offered in both Semester 1 and 2. `1+2`

2 Choose **16 units** from any of the lists below, accounting for prerequisites:

- **BCompSc Breadth Elective Courses**
- **BCompSc Program Elective Courses**

From the BCompSc Program & Course Requirements
https://my.uq.edu.au/programs-courses/requirements/program/2451/2025

- **General Elective Courses**

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

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

*MATH1071 Advanced Calculus & Linear Algebra I may be taken in place of MATH1051 (only in Semester 2).

*MATH1081 Advanced Discrete Mathematics may be taken in place of MATH1061 (only in Semester 1).

Students must follow the program and course requirements.

Seek advice from the School of EECS if you are undertaking a dual degree, have any questions or if you fail any courses.

Email **studentenquiries@eecs.uq.edu.au**.

Study plan published 2025. Future course offerings are subject to change.

Bachelor of Computer Science

Major in Scientific Computing

Commencing Semester 2

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

1 The study plan below shows the required: | **Core Courses** | **Major Courses** |

Year 1	**Sem 2** July	CSSE1001 Introduction to Software Engineering `1+2`	INFS1200 Introduction to Information Systems `1+2`	STAT1201* Analysis of Scientific Data `1+2`	MATH1051* Calculus and Linear Algebra I `1+2`
	Sem 1 Feb	COMP1100 Introduction to Software Innovatio `1+2`	MATH1061* Discrete Mathematics `1+2`	CSSE2010 Introduction to Computer Systems `1+2`	CSSE2002 Programming in the Large `1+2`
Year 2	**Sem 2** July	MATH1052* Multivariate Calculus & Ordinary Differential Equations `1+2`	COSC2500 Numerical Methods in Computational Science	Elective Breadth, Program or General	Elective Breadth, Program or General
	Sem 1 Feb	COMP2048 Theory of Computing	COSC3000 Visualisation, Computer Graphics & Data Analysis	SCIE2100 Bioinformatics 1: Introduction	Elective Breadth, Program or General
Year 3	**Sem 2** July	COMP3506 Algorithms & Data Structures	COSC3500 High-Performance Computing	Elective Breadth, Program or General	Elective Breadth, Program or General
	Sem 1 Feb	DECO3801 Design Computing Studio 3: Build `1+2`	Elective Breadth, Program or General	Elective Breadth, Program or General	Elective Breadth, Program or General

Course offered in both Semester 1 and 2. `1+2`

2 Complete **16 units** from any of the lists below, accounting for prerequisites:

- **BCompSc Breadth Elective Courses**
- **BCompSc Program Elective Courses**

From the BCompSc Program & Course Requirements (https://my.uq.edu.au/programs-courses/requirements/program/2451)

- **General Elective Courses**

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

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

*MATH1071 Advanced Calculus & Linear Algebra I may be taken in place of MATH1051 (only in Semester 2).

*MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations may be taken in place of MATH1052 (only in Semester 2).

*MATH1081 Advanced Discrete Mathematics may be taken in place of MATH1061 (only in Semester 1).

Students must follow the program and course requirements.

Seek advice from the School of EECS if you are undertaking a dual degree, have any questions or if you fail any courses.

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