Bachelor of Computer Science

Major in Programming Languages + Major in Scientific Computing

Commencing Semester 1

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

1 The study plan below shows the required: **Core Courses** | **Primary Major Compulsory 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	**MATH1051*** Calculus and Linear Algebra I 1+2
	Sem 2 July	**COMP1100** Introduction to Software Innovation 1+2	**MATH1061*** Discrete Mathematics 1+2	**CSSE2002** Programming in the Large 1+2	**CSSE2010** Introduction to Computer Systems 1+2
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**DECO1400** **Introduction** to Web Design	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations 1+2	**SCIE2100** Bioinformatics 1: Introduction
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**CSSE2310** Computer Systems Principles & Programming 1+2	**COMP2140** Web/Mobile Programming	**COSC2500** Numerical Methods in Computational Science
Year 3	Sem 1 Feb	**CSSE3100** Reasoning About Programming	**COMP4403** Compilers & Interpreters	**COMP3400** Functional and Logic Programming	**COSC3000** Visualisation, Computer Graphics & Data Analysis
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build 1+2	**COSC3500** High-Performance Computing	**Primary Major Elective**	Level 3 or 4 **Program Elective**

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

2 Complete exactly **2 units** of **Primary Major Elective Courses** from the options below, accounting for prerequisites:

Sem 1	**DECO2500**
Sem 2	**INFS2200** **DECO2500**

3 Choose **2 units** to replace DECO3801 in the **Secondary Major Courses**, at the same level or higher, from **BCompSc Program Elective Courses**: https://my.uq.edu.au/programs-courses/requirements/program/2451

*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.

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

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

Bachelor of Computer Science

Major in Programming Languages + Major in Scientific Computing

Commencing Semester 2

The University Of Queensland
AUSTRALIA
CREATE CHANGE

1 The study plan below shows the required: **Core Courses** | **Primary Major Compulsory Courses** | **Secondary 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 Innovation 1+2	**MATH1061*** Discrete Mathematics 1+2	**CSSE2002** Programming in the Large 1+2	**DECO1400** **Introduction** to Web Design
Year 2	Sem 2 July	**CSSE2010** Introduction to Computer Systems 1+2	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations 1+2	**COSC2500** Numerical Methods in Computational Science	**Primary Major Elective**
	Sem 1 Feb	**COMP2048** Theory of Computing	**CSSE2310** Computer Systems Principles & Programming 1+2	**CSSE3100** Reasoning About Programming	**SCIE2100** Bioinformatics 1: Introduction
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP2140** Web/Mobile Programming	**COSC3500** High-Performance Computing	Level 3 or 4 **Program Elective**
	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build 1+2	**COMP4403** Compilers & Interpreters	**COMP3400** Functional and Logic Programming	**COSC3000** Visualisation, Computer Graphics & Data Analysis

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

2 Complete exactly **2 units** of **Primary Major Electives Courses** from the options below, accounting for prerequisites:

Sem 1	**DECO2500**
Sem 2	**INFS2200** **DECO2500**

3 Choose **2 units** to replace DECO3801 in the **Secondary Major**, at the same level or higher, from **BCompSc Program Elective Courses**: https://my.uq.edu.au/programs-courses/requirements/program/2451

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

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