

# Bachelor of Computer Science

## Major in Data Science + Major in Scientific Computing

Commencing Semester 1


1 The study plan below shows the required:

Core Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 1 Feb	<b>CSSE1001</b> Introduction to Software Engineering 	<b>INFS1200</b> Introduction to Information Systems 	<b>STAT1201*</b> Analysis of Scientific Data 	<b>MATH1051*</b> Calculus and Linear Algebra I 
	Sem 2 July	<b>COMP1100</b> Introduction to Software Innovation 	<b>MATH1061*</b> Discrete Mathematics 	<b>CSSE2002</b> Programming in the Large 	<b>CSSE2010</b> Introduction to Computer Systems 
Year 2	Sem 1 Feb	<b>COMP2048</b> Theory of Computing	<b>STAT2003</b> Mathematical Probability	<b>SCIE2100</b> Bioinformatics 1: Introduction	<b>MATH1052*</b> Multivariate Calculus & Ordinary Differential Equations 
	Sem 2 July	<b>COMP3506</b> Algorithms & Data Structures	<b>INFS2200</b> Relational Database Systems	<b>COMP2011</b> Fundamentals of Data Science	<b>COSC2500</b> Numerical Methods in Computational Science
Year 3	Sem 1 Feb	<b>INFS3200</b> Advanced Database Systems	<b>COSC3000</b> Visualisation, Computer Graphics & Data Analysis	Program Elective	Program Elective
	Sem 2 July	<b>STAT2004</b> Statistical Modelling and Analysis	<b>DECO3801</b> Design Computing Studio 3: Build 	<b>COSC3500</b> High-Performance Computing	Program Elective

Course offered in both  
Semester 1 and 2. 

2

Choose **6 units** to replace STAT1201, MATH1051 and 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 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](mailto:studentenquiries@eecs.uq.edu.au).

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

# Bachelor of Computer Science

## Major in Data Science + Major in Scientific Computing

Commencing Semester 2

1 The study plan below shows the required:

Core Courses

Primary Major Courses

Secondary Major Courses

Year 1	Sem 2 July	<b>CSSE1001</b> Introduction to Software Engineering <b>1+2</b>	<b>INFS1200</b> Introduction to Information Systems <b>1+2</b>	<b>STAT1201*</b> Analysis of Scientific Data <b>1+2</b>	<b>MATH1051*</b> Calculus and Linear Algebra I <b>1+2</b>
	Sem 1 Feb	<b>COMP1100</b> Introduction to Software Innovation <b>1+2</b>	<b>MATH1061*</b> Discrete Mathematics <b>1+2</b>	<b>CSSE2002</b> Programming in the Large <b>1+2</b>	<b>CSSE2010</b> Introduction to Computer Systems <b>1+2</b>
Year 2	Sem 2 July	<b>INFS2200</b> Relational Database Systems	<b>COMP2011</b> Fundamentals of Data Science	<b>COSC2500</b> Numerical Methods in Computational Science	<b>MATH1052*</b> Multivariate Calculus & Ordinary Differential Equations <b>1+2</b>
	Sem 1 Feb	<b>COMP2048</b> Theory of Computing	<b>STAT2003</b> Mathematical Probability	<b>SCIE2100</b> Bioinformatics 1: Introduction	Program Elective
	Sem 2 July	<b>COMP3506</b> Algorithms & Data Structures	<b>STAT2004</b> Statistical Modelling and Analysis	<b>COSC3500</b> High-Performance Computing	Program Elective
Year 3	Sem 1 Feb	<b>DECO3801</b> Design Computing Studio 3: Build <b>1+2</b>	<b>INFS3200</b> Advanced Database Systems	<b>COSC3000</b> Visualisation, Computer Graphics & Data Analysis	Program Elective

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

2 Choose **6 units** to replace STAT1201, MATH1051 and 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 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@eeecs.uq.edu.au](mailto:studentenquiries@eeecs.uq.edu.au).

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