Bachelor of Computer Science

Major in Machine Learning + 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 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	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations 1+2	**SCIE2100** Bioinformatics 1: Introduction	Program Elective
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3702** Artificial Intelligence	**COSC2500** Numerical Methods in Computational Science	Program Elective
Year 3	Sem 1 Feb	**COMP4702** Machine Learning	**COSC3000** Visualisation, Computer Graphics & Data Analysis	Program Elective	Program Elective
	Sem 2 July	**COMP3710** Pattern Recognition and Analysis	**DECO3801** Design Computing Studio 3: Build 1+2	**STAT3006** Statistical Learning	**COSC3500** High-Performance Computing

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

2 Choose **8 units** to replace STAT1201, MATH1051, MATH1052 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 Scientfiic 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 Machine Learning + 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 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	**CSSE2010** Introduction to Computer Systems 1+2
Year 2	Sem 2 July	**COMP3702** Artificial Intelligence	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations 1+2	**COSC2500** Numerical Methods in Computational Science	Program Elective
	Sem 1 Feb	**COMP2048** Theory of Computing	**COSC3000** Visualisation, Computer Graphics & Data Analysis	**SCIE2100** Bioinformatics 1: Introduction	Program Elective
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3710** Pattern Recognition and Analysis	**STAT3006** Statistical Learning	**COSC3500** High-Performance Computing
	Sem 1 Feb	**COMP4702** Machine Learning	**DECO3801** Design Computing Studio 3: Build 1+2	Program Elective	Program Elective

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

2 Choose **8 units** to replace STAT1201, MATH1051, MATH1052 and DECO3801 in the **Secondary Major**, at the same level or higher, from the **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).

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