Bachelor of Computer Science

Major in Cyber Security

Commencing Semester 1

THE UNIVERSITY OF QUEENSLAND AUSTRALIA
CREATE CHANGE

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

Year	Semester				
Year 1	Sem 1 Feb	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061*** Discrete Mathematics (1+2)	**Elective** Breadth, Program or General
	Sem 2 July	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**Elective** Major Course
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**CSSE2310** Computer Systems Principles & Programming (1+2)	**Elective** Major Course	**Elective** Breadth, Program or General
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3301** Operating Systems Architecture	**CYBR3000** Information Security	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**COMP3320** Vulnerability Assessment & Penetration Testing	**COMS3200** Computer Networks I	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
	Sem 2 July	**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 exactly **4 units** of **Elective Major Courses** from the options below, accounting for prerequisites:

Sem 1	**CRIM1000** **DECO2500**
Sem 2	**CRIM1000** **DECO2500** **INFS2200**

3 Complete **16 units** from any of the following, 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.

*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 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 Cyber Security

Commencing Semester 2

THE UNIVERSITY OF QUEENSLAND AUSTRALIA
CREATE CHANGE

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

Year	Semester				
Year 1	Sem 2 July	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061**** Discrete Mathematics (1+2)	**Elective** Breadth, Program or General
Year 1	Sem 1 Feb	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**Elective** Major **Course**
Year 2	Sem 2 July	**CSSE2310** Computer Systems Principles & Programming (1+2)	**Elective** Major **Course**	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3301** Operating Systems Architecture	**CYBR3000** Information Security	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**COMP3320** Vulnerability Assessment & Penetration Testing	**COMS3200** Computer Networks I	**DECO3801** Design Computing Studio 3: Build (1+2)	**Elective** Breadth, Program or General

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

2 Complete exactly **4 units** of **Elective Major Courses** from the list below, accounting for prerequisites:

Sem 1	**CRIM1000** **DECO2500**
Sem 2	**CRIM1000** **DECO2500** **INFS2200**

3 Complete **16 units** from any of the following, 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.

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

Students must follow the program and course requirements.

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

Bachelor of Computer Science

Major in Cyber Security + Major in Data Science

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)	**MATH1051*** Calculus and Linear Algebra I (1+2)	**STAT1201*** Analysis of Scientific Data (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	**CSSE2310** Computer Systems Principles & Programming (1+2)	**CRIM1000** Introduction to Criminology (1+2)	**STAT2003** Mathematical Probability
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**CYBR3000** Information Security	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems
Year 3	Sem 1 Feb	**COMP3320** Vulnerability Assessment & Penetration Testing	**COMS3200** Computer Networks I	**DECO2500** Human Computer Interaction (1+2)	**INFS3200** Advanced Database Systems
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**COMP3301** Operating Systems Architecture	**STAT2004** Statistical Modelling & Analysis	Level 3 or 4 **Program Elective**

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

2 Replace DECO3801 in the **Data Science Major** with **2 units at level 3 or 4** from the **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).

*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.
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Email **studententerprises@eecs.uq.edu.au**.
Study plan published 2025. Future course offerings are subject to change.

Bachelor of Computer Science

Major in Cyber Security + Major in Data Science

Commencing Semester 2

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)	MATH1051* Calculus and Linear Algebra I (1+2)	STAT1201* Analysis of Scientific Data (1+2)
Year 1	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	CSSE2310 Computer Systems Principles & Programming (1+2)	COMP2011 Fundamentals of Data Science	INFS2200 Relational Database Systems	DECO2500 Human-Computer Interaction (1+2)
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	STAT2003 Mathematical Probability	INFS3200 Advanced Database Systems	CRIM1000 Introduction to Criminology (1+2)
Year 3	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3301 Operating Systems Architecture	CYBR3000 Information Security	STAT2004 Statistical Modelling and Analysis
Year 3	Sem 1 Feb	DECO3801 Design Computing Studio 3: Build (1+2)	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	Level 3 or 4 **Program Elective**

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

2 Replace DECO3801 in the Data Science Major with **2 units** at **level 3 or 4** 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).

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

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

Bachelor of Computer Science

Major in Cyber Security + Major in Machine Learning

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*** Dscrete 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	**CSSE2310** Computer Systems Principles & Programming (1+2)	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2)	Primary Major Elective
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3301** Operating Systems Architecture	**CYBR3000** Information Security	**COMP3702** Artificial Intelligence
Year 3	Sem 1 Feb	**COMP3320** Vulnerability Assessment & Penetration Testing	**COMS3200** Computer Networks I	**COMP4702** Machine Learning	Level 3 or 4 Program Elective
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**COMP3710** Pattern Recognition and Analysis	**STAT3006** Statistical Learning	Primary Major Elective

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

2 Complete exactly **4 units** of **Primary Major Elective Courses** from the options below, accounting for prerequisites:

Sem 1	CRIM1000 DECO2500
Sem 2	CRIM1000 DECO2500 INFS2200

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 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.

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

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

Bachelor of Computer Science

Major in Cyber Security + Major in Machine Learning

Commencing Semester 2

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)
Year 1	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	COMP3506 Algorithms & Data Structures	CSSE2310 Computer Systems Principles & Programming (1+2)	COMP3702 Artificial Intelligence	MATH1052* Multivariate Calculus & Ordinary Differential Equations (1+2)
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	COMP4702 Machine Learning	Primary Major Elective	Primary Major Elective
Year 3	Sem 2 July	COMP3301 Operating Systems Architecture	CYBR3000 Information Security	COMP3710 Pattern Recognition and Analysis	STAT3006 Statistical Learning
Year 3	Sem 1 Feb	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	DECO3801 Design Computing Studio 3: Build (1+2)	Level 3 or 4 Program Elective

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

2 Complete exactly **4 units** of **Primary Major Elective Courses** from the list below, accounting for prerequisites:

Sem 1	CRIM1000 DECO2500
Sem 2	CRIM1000 DECO2500 INFS2200

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 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 **studententenquiries@eecs.uq.edu.au**.

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

Bachelor of Computer Science

Major in Cyber Security + Major in Programming Languages

Commencing Semester 1

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)	MATH1061* Discrete Mathematics (1+2)	DECO1400 Introduction to Web Design
	Sem 2 July	COMP1100 Introduction to Software Innovation (1+2)	CSSE2002 Programming in the Large (1+2)	CSSE2010 Introduction to Computer Systems (1+2)	CRIM1000 Introduction to Criminology (1+2)
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming (1+2)	DECO2500 Human-Computer Interaction (1+2)	CSSE3100 Reasoning About Programming
	Sem 2 July	COMP3506 Algorithms & Data Structures	INFS2200 Relational Databas Systems	CYBR3000 Information Security	COMP2140 Web/Mobile Programming
Year 3	Sem 1 Feb	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	COMP3400 Functional and Logic Programming	COMP4403 Compilers and Interpreters
	Sem 2 July	DECO3801 Design Computing Studio 3: Build (1+2)	COMP3301 Operating Systems Architecture	Program Elective	Program Elective

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

2 Choose **4 units** towards the **Secondary Major** to replace CSSE2310 and DECO3801, at the same level or higher, from **BCompSc Program Elective Courses**: https://my.uq.edu.au/programs-courses/requirements/program/2451

*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 fail any courses.

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

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

Bachelor of Computer Science

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
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Major in Cyber Security + Major in Programming Languages

Commencing Semester 2

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)	**MATH1061*** Discrete Mathematics (1+2)	**CRIM1000** Introduction to Criminology (1+2)
	Sem 1 Feb	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**DECO1400** Introduction to Web Design
Year 2	Sem 2 July	**CSSE2310** Computer Systems Principles & Programming (1+2)	**DECO2500** Human-Computer Interaction (1+2)	**COMP2140** Web/Mobile Programming	**INFS2200** Relational Database Systems (1+2)
	Sem 1 Feb	**COMP2048** Theory of Computing	**COMP3400** Functional and Logic Programming	**CSSE3100** Reasoning About Programming	Program Elective
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3301** Operating Systems Architecture	**CYBR3000** Information Security	Program Elective
	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**COMP3320** Vulnerability Assessment & Penetration Testing	**COMS3200** Computer Networks I	**COMP4403** Compilers and Interpreters

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

2 Choose **4 units** towards the **Secondary Major** to replace CSSE2310 and DECO3801, at the same level or higher, from **BCompSc Program Elective Courses**: https://my.uq.edu.au/programs-courses/requirements/program/2451

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

Students must follow the program and course requirements.

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.

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

Bachelor of Computer Science

Major in Cyber Security + Major in Scientific Computing

Commencing Semester 1

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 Innovatio (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	CSSE2310 Computer Systems Principles & Programming (1+2)	MATH1052* Multivariate Calculus & Ordinary Differential Equations (1+2)	SCIE2100 Bioinformatics 1: Introduction
	Sem 2 July	COMP3506 Algorithms & Data Structures	COMP3301 Operating Systems Architecture	CYBR3000 Information Security	COSC2500 Numerical Methods in Computational Science
Year 3	Sem 1 Feb	COMP3320 Vulnerability Assessment & Penetration Testing	COMS3200 Computer Networks I	COSC3000 Visualisation, Computer Graphics & Data Analysis	Primary Major Elective
	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 **4 units** of **Primary Major Elective Courses** from the options below, accounting for prerequisites:

Sem 1	CRIM1000 DECO2500
Sem 2	CRIM1000 DECO2500 INFS2200

3 Complete exactly **2 units** to replace 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).

Students must follow the program and course requirements.
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Study plan published 2025. Future course offerings are subject to change.

Bachelor of Computer Science

THE UNIVERSITY OF QUEENSLAND AUSTRALIA
CREATE CHANGE

Major in Cyber Security + Major in Scientific Computing

Commencing Semester 2

1 The study plan below shows the required: Core Courses | Primary Major Compulsory Courses | Secondary Major Courses

Year	Semester	Course 1	Course 2	Course 3	Course 4
Year 1	Sem 2 July	**CSSE1001** Introduction to Software Engineering (Core; 1+2)	**INFS1200** Introduction to Information Systems (Core; 1+2)	**STAT1201*** Analysis of Scientific Data (Secondary Major; 1+2)	**MATH1051*** Calculus and Linear Algebra I (Secondary Major; 1+2)
Year 1	Sem 1 Feb	**COMP1100** Introduction to Software Innovatio (Core; 1+2)	**MATH1061*** Discrete Mathematics (Core; 1+2)	**CSSE2002** Programming in the Large (Core; 1+2)	**CSSE2010** Introduction to Computer Systems (Core; 1+2)
Year 2	Sem 2 July	**CSSE2310** **Computer** Systems Principles & Programming (Primary Major; 1+2)	**MATH1052*** **Multivariate** Calculus & Ordinary Differential Equations (Secondary Major; 1+2)	**COSC2500** Numerical Methods in Computational Science (Secondary Major)	Primary Major Elective
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing (Core)	**COSC3000** **Visualisation,** Computer Graphics & Data Analysis (Secondary Major)	**SCIE2100** **Bioinformatics** 1: Introduction (Secondary Major)	Primary Major Elective
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures (Core)	**COMP3301** **Operating** Systems Architecture (Primary Major)	**CYBR3000** **Information** Security (Primary Major)	**COSC3500** **High-Performance** Computing (Secondary Major)
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (Primary Major; 1+2)	**COMP3320** Vulnerability Assessment & Penetration Testing (Primary Major)	**COMS3200** **Computer** Networks I (Primary Major)	Level 3 or 4 Program Elective

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

2 Complete exactly **4 units** of **Primary Major Elective Courses** from the options below, accounting for prerequisites:

Sem 1	**CRIM1000** **DECO2500**
Sem 2	**CRIM1000** **DECO2500** **INFS2200**

3 Complete exactly **2 units** to replace 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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Study plan published 2025. Future course offerings are subject to change.

Bachelor of Computer Science

Major in Data Science

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 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	**STAT2003** Mathematical Probability	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems	**STAT2004** Statistical Modelling and Analysis
Year 3	Sem 1 Feb	**INFS3200** Advanced Database Systems	**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)	**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 following, accounting for prerequisites:

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

  From the BCompSc Program & Course Requirements (https://my.uq.edu.au/programs-courses/requirementsprogram/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.

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

Bachelor of Computer Science

Major in Data Science

Commencing Semester 2

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

Year	Semester	Course	Course	Course	Course
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)
Year 1	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	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**STAT2003** Mathematical Probability	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**STAT2004** Statistical Modelling and Analysis	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**INFS3200** Advanced Database Systems	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General

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

2 Fill the remaining free spaces with any of the following, accounting for prerequisites:

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

  From the BCompSc Program & Course Requirements (https://my.uq.edu.au/programs-courses/requirementsprogram/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

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

Extended Major in Data Science

Commencing Semester 1

1 The study plan below shows the required: **Core Courses** | **Extended Major Compulsory 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	**STAT2003** Mathematical Probability	**Extension Course**	**Elective** Breadth, Program or Elective
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems	**STAT2004** Statistical Modelling and Analysis
Year 3	Sem 1 Feb	**INFS3200** Advanced Database Systems	**Extension Course**	**Elective** Breadth, Program or Elective	**Elective** Breadth, Program or Elective
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**Extension Course**	**Extension Course**	**Elective** Breadth, Program or Elective

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

2 Complete exactly **8 units** of **Extended Major Extension Courses**, accounting for pre-requisites:

Sem 1	**COMP4702** **INFS4205**
Sem 2	**COMP3702** **COMP4703** **INFS3208** **INFS4203**

3 Complete **8 units** from any of the following, 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).

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

Bachelor of Computer Science

The University of Queensland
Australia
CREATE CHANGE

Extended Major in Data Science

Commencing Semester 2

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

Year	Semester				
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)
Year 1	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	**COMP3506** Algorithms & Data Structures	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems	**Elective** Breadth, Program or Elective
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**STAT2003** Mathematical Probability	**Extension Course**	**Elective** Breadth, Program or Elective
Year 3	Sem 2 July	**STAT2004** Statistical Modelling and Analysis	**Extension Course**	**Extension Course**	**Elective** Breadth, Program or Elective
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**INFS3200** Advanced Database Systems	**Extension Course**	**Elective** Breadth, Program or Elective

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

2 Complete exactly **8 units** of **Extended Major Extension Courses**, accounting for pre-requisites:

Sem 1	**INFS4205** **COMP4702**
Sem 2	**COMP3702** **INFS3208** **COMP4703** **INFS4203**

3 Complete **8 units** from any of the following, 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 Scientfici 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).

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

Bachelor of Computer Science

Major in Data Science + Major in Machine Learning

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) — Core	**INFS1200** Introduction to Information Systems (1+2) — Core	**STAT1201*** Analysis of Scientific Data (1+2) — Primary Major	**MATH1051*** Calculus and Linear Algebra I (1+2) — Primary Major
	Sem 2 July	**COMP1100** Introduction to Software Innovation (1+2) — Core	**MATH1061*** Discrete Mathematics (1+2) — Core	**CSSE2002** Programming in the Large (1+2) — Core	**CSSE2010** Introduction to Computer Systems (1+2) — Core
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing — Core	**STAT2003** Mathematical Probability — Primary Major	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2) — Secondary Major	Program Elective
	Sem 2 July	**COMP3506** Algorithms & Data Structures — Core	**COMP2011** Fundamentals of Data Science — Primary Major	**INFS2200** Relational Database Systems — Primary Major	**STAT2004** Statistical Modelling and Analysis — Primary Major
Year 3	Sem 1 Feb	**INFS3200** Advanced Database Systems — Primary Major	**COMP4702** Machine Learning — Secondary Major	Program Elective	Program Elective
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2) — Primary Major	**COMP3710** Pattern Recognition and Analysis — Secondary Major	**STAT3006** Statistical Learning — Secondary Major	**COMP3702** Artificial Intelligence — Secondary Major

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 the **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).

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

Bachelor of Computer Science

Major in Data Science + Major in Machine Learning

Commencing Semester 2

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

Year	Semester				
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
Year 1	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	**COMP3506** Algorithms & Data Structures	**COMP2011** Fundamentals of Data Science	**INFS2200** Relational Database Systems	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations 1+2
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**STAT2003** Mathematical Probability	Program Elective	Program Elective
Year 3	Sem 2 July	**STAT2004** Statistical Modelling and Analysis	**COMP3710** Pattern Recognition and Analysis	**COMP3702** Artificial Intelligence	**STAT3006** Statistical Learning
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build 1+2	**INFS3200** Advanced Database Systems	**COMP4702** Machine Learning	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 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 mayv be taken in place of MATH1051 (only in Semester 2).

*MATH1072 Advanced Multivvariate 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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Bachelor of Computer Science

Major in Data Science + 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	**STAT2003** Mathematical Probability	**SCIE2100** Bioinformatics 1: Introduction	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2)
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**INFS2200** Relational Database Systems	**COMP2011** Fundamentals of Data Science	**COSC2500** Numerical Methods in Computational Science
Year 3	Sem 1 Feb	**INFS3200** Advanced Database Systems	**COSC3000** Visualisation, Computer Graphics & Data Analysis	Program Elective	Program Elective
	Sem 2 July	**STAT2004** Statistical Modelling and Analysis	**DECO3801** Design Computing Studio 3: Build (1+2)	**COSC3500** High-Performance Computing	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).

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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	Semester				
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)
Year 1	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	**INFS2200** Relational Database Systems	**COMP2011** Fundamentals of Data Science	**COSC2500** Numerical Methods in Computational Science	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2)
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**STAT2003** Mathematical Probability	**SCIE2100** Bioinformatics 1: Introduction	Program Elective
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**STAT2004** Statistical Modelling and Analysis	**COSC3500** High-Performance Computing	Program Elective
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**INFS3200** Advanced Database Systems	**COSC3000** 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 Scientofic 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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Bachelor of Computer Science

Major in Data Science + Major in Programming Languages

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	Semester				
Year 1	Sem 1 Feb	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1051*** Calculus and Linear Algebra I (1+2)	**STAT1201*** Analysis of Scientific Data (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	**STAT2003** Mathematical Probability	**DECO1400** Introduction to Web Design	**CSSE2310** Computer Systems Principles & Programming (1+2)
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**INFS2200** Relational Database Systems	**COMP2011** Fundamentals of Data Science	**COMP2140** Web/Mobile Programming
Year 3	Sem 1 Feb	**INFS3200** Advanced Database Systems	**COMP4403** Compilers and Interpreters	**CSSE3100** Reasoning About Programming	**COMP3400** Functional and Logic Programming
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**STAT2004** Statistical Modelling and Analysis	**DECO2500** Human-Computer Interaction (1+2)	Level 3 or 4 Program Elective

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

2 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 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).

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

Bachelor of Computer Science

Major in Data Science + Major in Programming Languages

Commencing Semester 2

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

Year	Semester				
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)
Year 1	Sem 1 Feb	**COMP1100** Introduction to Software Innovation (1+2)	**MATH1061*** Discrete Mathematics (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**DECO1400** Introduction to Web Design
Year 2	Sem 2 July	**CSSE2002** Programming in the Large (1+2)	**COMP2011** Fundamentals of Data Science	**COMP2140** Web/Mobile Programming	**CSSE2310** Computer Systems Principles & Programming (1+2)
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**STAT2003** Mathematical Probability	**CSSE3100** Reasoning About Programming	**COMP3400** Functional and Logic Programming
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	**STAT2004** Statistical Modelling and Analysis	**INFS2200** Relational Database Systems	**DECO2500** Human-Computer Interaction (1+2)
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**INFS3200** Advanced Database Systems	**COMP4403** Compilers and Interpreters	**Level** 3 or 4 **Program Elective**

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

2. 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 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).

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

Bachelor of Computer Science

The University Of Queensland Australia
CREATE CHANGE

Major in Machine Learning

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 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)	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3702** Artificial Intelligence	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**COMP4702** Machine Learning	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
	Sem 2 July	**COMP3710** Pattern Recognition and Analysis	**DECO3801** Design Computing Studio 3: Build (1+2)	**STAT3006** Statistical Learning	**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 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).

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

Bachelor of Computer Science

Major in Machine Learning

Commencing Semester 2

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

Year	Semester				
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)
Year 1	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	**COMP3506** Algorithms & Data Structures	**COMP3702** Artificial Intelligence	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2)	**Elective** Breadth, Program or General
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 2 July	**COMP3710** Pattern Recognition and Analysis	**STAT3006** Statistical Learning	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**COMP4702** Machine Learning	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General

Core Courses: CSSE1001, INFS1200, COMP1100, MATH1061, CSSE2002, CSSE2010, COMP3506, COMP2048. Major Courses: STAT1201, MATH1051, COMP3702, MATH1052, COMP3710, STAT3006, DECO3801, COMP4702.

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 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).

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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: **Core Courses** | **Primary Major Courses** | **Secondary Major Compulsory Courses**

Year 1	Sem 1 Feb	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1051*** Calculus and Linear Algebra I (1+2)	**DECO1400** Introduction to Web Design
	Sem 2 July	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**MATH1061*** Discrete Mathematics (1+2)	**STAT1201*** Analysis of Scientific Data (1+2)
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**CSSE2010** Introduction to Computer Systems (1+2)	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (1+2)	**CSSE3100** Reasoning About Programs
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP3702** Artificial Intelligence	**COMP2140** Web/Mobile Programming	**CSSE2310** Computer Systems Principles & Programming (1+2)
Year 3	Sem 1 Feb	**COMP4702** Machine Learning	**COMP3400** Functional & Logic Programming	**COMP4403** Compilers & Interpreters	Level 3 or 4 Program Elective
	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**COMP3710** Pattern Recognition and Analysis	**STAT3006** Statistical Learning	Secondary Major Elective

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

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

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

3 Choose the remaining **2 units** to replace 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 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).

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Bachelor of Computer Science

Major in Machine Learning + Major in Programming Languages

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 Compulsory Courses**

Year	Semester				
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)
Year 1	Sem 1 Feb	COMP1100 Introduction to Software Innovation (1+2)	CSSE2002 Programming in the Large (1+2)	MATH1061* Discrete Mathematics (1+2)	DECO1400 Introduction to Web Design
Year 2	Sem 2 July	CSSE2010 Introduction to Computer Systems (1+2)	COMP3702 Artificial Intelligence	MATH1052* Multivariate Calculus & Ordinary Differential Equations (1+2)	COMP2140 Web/Mobile Programming
Year 2	Sem 1 Feb	COMP2048 Theory of Computing	CSSE2310 Computer Systems Principles & Programming (1+2)	COMP3400 Functional & Logic Programming	Level 3 or 4 Program Elective
Year 3	Sem 2 July	COMP3506 Algorithms & Data Structures	STAT3006 Statistical Learning	COMP3710 Pattern Recognition and Analysis	Secondary Major Elective
Year 3	Sem 1 Feb	DECO3801 Design Computing Studio 3: Build (1+2)	COMP4702 Machine Learning	CSSE3100 Reasoning About Programs	COMP4403 Compilers & Interpreters

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

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

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

3 Choose the remaining **2 units** to replace 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).

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 1

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.

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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

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

Year	Semester	Course 1	Course 2	Course 3	Course 4
Year 1	Sem 2 July	**CSSE1001** Introduction to Software Engineering (Core; 1+2)	**INFS1200** Introduction to Information Systems (Core; 1+2)	**STAT1201*** Analysis of Scientific Data (Primary Major; 1+2)	**MATH1051*** Calculus and Linear Algebra I (Primary Major; 1+2)
Year 1	Sem 1 Feb	**COMP1100** Introduction to Software Innovation (Core; 1+2)	**MATH1061*** Discrete Mathematics (Core; 1+2)	**CSSE2002** Programming in the Large (Core; 1+2)	**CSSE2010** Introduction to Computer Systems (Core; 1+2)
Year 2	Sem 2 July	**COMP3702** Artificial Intelligence (Primary Major)	**MATH1052*** Multivariate Calculus & Ordinary Differential Equations (Primary Major; 1+2)	**COSC2500** Numerical Methods in Computational Science (Secondary Major)	Program Elective
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing (Core)	**COSC3000** Visualisation, Computer Graphics & Data Analysis (Secondary Major)	**SCIE2100** Bioinformatics 1: Introduction (Secondary Major)	Program Elective
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures (Core)	**COMP3710** Pattern Recognition and Analysis (Primary Major)	**STAT3006** Statistical Learning (Primary Major)	**COSC3500** High-Performance Computing (Secondary Major)
Year 3	Sem 1 Feb	**COMP4702** Machine Learning (Primary Major)	**DECO3801** Design Computing Studio 3: Build (Primary Major; 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).

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

Commencing Semester 1

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

Year 1	Sem 1 Feb	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061*** Discrete Mathematics (1+2)	**DECO1400** Introduction to Web Design
	Sem 2 July	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**Elective Major Course**
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**CSSE2310** Computer Systems Principles & Programming (1+2)	Elective Breadth, Program or General	Elective Breadth, Program or General
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**COMP2140** Web/Mobile Programming	Elective Breadth, Program or General	Elective Breadth, Program or General
Year 3	Sem 1 Feb	**COMP4403** Compilers & Interpreters	**COMP3400** Functional and Logic Programming	**CSSE3100** Reasoning About Programming	Elective Breadth, Program or General
	Sem 2 July	**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 exactly **2 units** of **Elective Major Courses** from the options below, accounting for prerequisites:

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

3 Complete **16 units** of electives from 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.

*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

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

Major in Programming Languages

Commencing Semester 2

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

Year	Semester				
Year 1	Sem 2 July	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061*** Discrete Mathematics (1+2)	Elective Breadth, Program or General
Year 1	Sem 1 Feb	**COMP1100** Introduction to Software Innovation (1+2)	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**DECO1400** Introduction to Web Design
Year 2	Sem 2 July	**CSSE2310** Computer Systems Principles & Programming (1+2)	**COMP2140** Web/Mobile Programming	**Elective Major Course**	Elective Breadth, Program or General
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**COMP3400** Functional and Logic Programming	**CSSE3100** Reasoning About Programming	Elective Breadth, Program or General
Year 3	Sem 2 July	**COMP3506** Algorithms & Data Structures	Elective Breadth, Program or General	Elective Breadth, Program or General	Elective Breadth, Program or General
Year 3	Sem 1 Feb	**COMP4403** Compilers & Interpreters	**DECO3801** Design Computing Studio 3: Build (1+2)	Elective Breadth, Program or General	Elective Breadth, Program or General

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

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

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

3 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.

*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 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.

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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	Semester				
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).

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

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

Bachelor of Computer Science

Major in Scientific Computing

Commencing Semester 2

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

The University of Queensland Australia
CREATE CHANGE

Bachelor of Computer Science

No Major

Commencing Semester 1

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

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

Year	Semester				
Year 1	Sem 1 Feb	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061**** Discrete Mathematics (1+2)	**Introductory** Elective
	Sem 2 July	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**COMP1100** Introduction of Software Innovation (1+2)	**Introductory** Elective
Year 2	Sem 1 Feb	**COMP2048** Theory of Computing	**Introductory** Elective	**Introductory** Elective	**Elective** Breadth, Program or General
	Sem 2 July	**COMP3506** Algorithms & Data Structures	**Advanced** Elective	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 1 Feb	**DECO3801** Design Computing Studio 3: Build (1+2)	**Advanced** Elective	**Elective** Breadth, Program or General	**Elective** Breadth, Program or Generall
	Sem 2 July	**Advanced** Elective	**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 **8 to 16 units** of **BCompSc Introductory Elective Courses**, accounting for prerequisites:

Sem 1	DECO1400	MATH1071*	
Sem 2	COMP2011 COMP2140	COSC2500 DECO2801	INFS2200 STAT1301*
Sem 1+2	CSSE2310 DECO2500	MATH1051* STAT1201*	

3 Complete **6 to 22 units** of **BCompSc Advanced Elective Courses**, accounting for prerequisites:

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

4 Choose the remaining **0 to 16 units** from the following options, accounting for prerequisites:

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

  From the BCompSc Course List (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.

*You can only take one of MATH1051 or MATH1071, and one of STAT1201 or STAT1301.

**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

No Major

Commencing Semester 2

The University of Queensland, Australia
CREATE CHANGE

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

Year 1	Sem 2 July	**CSSE1001** Introduction to Software Engineering (1+2)	**INFS1200** Introduction to Information Systems (1+2)	**MATH1061**** Discrete Mathematics (1+2)	**Elective** Breadth, Program or General
	Sem 1 Feb	**CSSE2002** Programming in the Large (1+2)	**CSSE2010** Introduction to Computer Systems (1+2)	**COMP1100** Introduction of Software Innovation (1+2)	**Introductory** Elective
Year 2	Sem 2 July	**COMP3506** Algorithms & Data Structures	**Introductory** Elective	**Introductory** Elective	**Elective** Breadth, Program or General
	Sem 1 Feb	**COMP2048** Theory of Computing	**Introductory** Elective	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
Year 3	Sem 2 July	**DECO3801** Design Computing Studio 3: Build (1+2)	**Advanced** Elective	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General
	Sem 1 Feb	**Advanced** Elective	**Advanced** Elective	**Elective** Breadth, Program or General	**Elective** Breadth, Program or General

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

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

2 Complete **8 to 16 units** of **BCompSc Introductory Elective Courses**, accounting for prerequisites:

Sem 1	DECO1400	MATH1071*
Sem 2	COMP2011 COMP2140 COSC2500	DECO2801 INFS2200 STAT1301*
Sem 1+2	CSSE2310 DECO2500	MATH1051* STAT1201*

3 Complete **6 to 22 units** of **BCompSc Advanced Elective Courses**, accounting for prerequisites:

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

4 Choose the remaining **0 to 16 units** from the following options, accounting for prerequisites:

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

  From the BCompSc Course List (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.

*You can only take one of MATH1051 or MATH1071, and one of STAT1201 or STAT1301.

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