

Bachelor of Computer Science

Suggested Study Plan for Semester 2 Start (BCompSc)

Major in Machine Learning + Major in Scientific Computing

Valid from 2021

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The table below shows the required:

Compulsory Courses

Primary Major Courses

Secondary Major Courses

| | | | | | |
|----|----|---|--|---|--|
| Y1 | S2 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | STAT1201 Analysis of Scientific Data Or STAT1301 |
| | S1 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | MATH1051 Calculus & Linear Algebra Or MATH1071 | MATH1052 Multivariate Calculus & Ordinary Differential Equations |
| Y2 | S2 | COMP3506 Algorithms & Data Structures | COMP3702 Artificial Intelligence | COSC2500 Numerical Methods in Computational Science | INFS2200 Relational Database Systems |
| | S1 | COMP2048 Theory of Computing | COMP4702 Machine Learning | COSC3000 Visualization, Computer Graphics & Data Analysis | SCIE2100 Bioinformatics 1: Introduction |
| Y3 | S2 | COMP3710 Pattern Recognition and Analysis | DECO3801 Design Computing Studio 3: Build | STAT3006 Statistical Learning | MATH2302 Discrete Mathematics II |
| | S1 | | | | |

Note: Due to prerequisites & availability of slots in a full-time semester load, it is not possible to fit COSC3500 into Year 3, Semester 2 without overloading. Therefore, this suggested study plan will require a minimum length of 3.5 years to complete. Please contact an academic advisor for alternative approaches.

COSC3500

High-Performance Computing

2

Note, there are no remaining **Primary Major Courses** for this major. Go to Step 3.

| | | | |
|----|---|---|---|
| S1 | — | — | — |
| S2 | — | — | — |

3

Note, there are no remaining **Secondary Major Courses** for this major. Go to Step 4.

4

Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **MATH1051** (Level 1), **MATH1052** (Level 1) and **DECO3801** (Level 3) — from the **BCompSc** program rules & requirements.



Course offered in both Semester 1 & 2.