

COMPUTER SCIENCE HONOURS (B.SC.) (75 CREDITS)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

Students may complete this program with a minimum of 72 credits or a maximum of 75 credits depending if they are exempt from taking COMP 202 Foundations of Programming..

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Degree Requirements — B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (46-49 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 350	Numerical Computing.	3
COMP 362	Honours Algorithm Design.	3
COMP 400	Project in Computer Science	4

MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3
MATH 340	Discrete Mathematics. ²	3
MATH 350	Honours Discrete Mathematics. ²	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

² Students take either MATH 340 Discrete Mathematics. or MATH 350 Honours Discrete Mathematics ..

Complementary Courses (27 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

20 credits selected from computer science courses at the 300 level or above (except COMP 364 Computer Tools for Life Sciences. and COMP 396 Undergraduate Research Project.) and ECSE 539 Advanced Software Language Engineering.. At least 12 credits must be at the 500 level.