

Software Engineering

September 2020 (for students who entered first year in September 2015 or earlier)

Year 2:

Term A

AM 2270a Applied Mathematics for Engineering II
ECE 2277a Digital Logic Systems

SE 2203a Software Design

Math 2151a Discrete Structures for Engineering CS 1037a Computer Science Fundamentals II SS 2141a Applied Probability and Statistics

Term B

AM 2276b Applied Mathematics for Elec & Mech Eng III ECE 2238b Introduction to Electrical Engineering

SE 2250b Software Construction

SE 2205b Algorithms and Data Structures ES 2211G Engineering Communications

One 0.5 Non-Technical Elective from the Approved List

Year 3:

Term A

ECE 4436a	Networking: Principles, Protocols, and Architecture
SE 3309a	Database Management Systems
SE 3313a	Operating Systems for Software Engineering
SE 3316a	Web Technologies
SE 3352a	Software Requirements & Analysis

Term B

ECE 33/50	Microprocessors and Microcomputers
SE 3310b	Theoretical Foundations of Software Engineering
SE 3314b	Computer Networks Applications
SE 3351b	Software Project and Process Management
SE 3353b	Human-Computer Interaction
SE 3350b	Software Engineering Design I

Year 4:

Term A

Bus 2299EBusiness for EngineersSE 4450Software Engineering Design IISE 4452aSoftware Testing and Maintenance

SE 4472a Information Security

Two 0.5 technical electives

Term B

Bus 2299E	Business for Engineers
SE 4450	Software Engineering Design II

SE 4455b Cloud computing: concepts, technologies and applications ES 4498G Engineering Ethics, Sustainable Development and the Law

Two 0.5 technical electives

NOTES:

Important:

Students are responsible for ensuring they have the correct courses required for their degree. If you are unsure which courses you still need or if you see courses listed on the progression sheet that are no longer offered or are not offered in the term you see listed here, please contact your Academic Counsellor.

Technical electives:

Students may elect to substitute technical electives from other engineering disciplines or from the Faculty of Science, provided they have the required prerequisites, and provided at least half of their technical electives be from the list below. A maximum of two 0.5-credit courses may be taken from the Faculty of Science and used towards the BESc degree. All courses outside the SE technical elective list *must* be approved by the ECE Department.

Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the department for accurate listing.

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	ECE 4460A/B	Real-Time and Embedded Systems
	ECE 3389A/B	Computer System Design
	ECE 3390A/B	Hardware/Software Co-Design
	SE 4460A/B	Machine Learning & Design
	CS 3346A/B	Artificial Intelligence I
	CS 4442A/B	Artificial Intelligence II
	CS 3388A/B	Computer Graphics I
	CS 4482A/B	Game Engine Development
	CS 4483A/B	Game Design
	CS 3342A/B	Organization of programming languages
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