

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: http://calendars.registrar.yorku.ca/

			COURSES	CREDITS EARNED	GRADE				
First Year Courses									
		SC/CHEM 1100 4.00	Chemistry and Materials Science for Engineers						
		LE/EECS 1011 3.00	Computational Thinking Through Mechatronics						
		LE/EECS 1021 3.00	Object Oriented Programming from Sensors to Actuators						
		LE/EECS 1028 3.00	Discrete Mathematics for Engineers						
		LE/ENG 1101 4.00	Renaissance Engineer 1: Ethics, Communication and Problem Solving						
		LE/ENG 1102 4.00	Renaissance Engineer 2: Engineering Design Principles						
		SC/MATH 1013 3.00	Applied Calculus I						
		SC/MATH 1014 3.00	Applied Calculus II						
		SC/MATH 1025 3.00	Applied Linear Algebra						
		SC/PHYS 1800 3.00	Engineering Mechanics						
		SC/PHYS 1801 3.00	Electricity, Magnetism and Optics for Engineers						
Second Year Courses									
		SC/MATH 1090 3.00	Introduction to Logic for Computer Science						
		LE/EECS 2011 3.00	Fundamentals of Data Structures						
		LE/EECS 2021 4.00	Computer Organization						
		LE/EECS 2030 3.00	Advanced Object Oriented Programming						
		LE/EECS 2032 4.00	Introduction to Embedded Systems						
		LE/EECS 2200 3.00	Electrical Circuits						
		LE/EECS 2210 3.00	Electronic Circuits and Devices						
		LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety						
		LE/ENG 2003 3.00	Effective Engineering Communication						
		SC/MATH 2015 3.00	Applied Multivariate and Vector Calculus						
		SC/MATH 2930 3.00	Introduction to Probability and Statistics						
		SC/PHYS 2020 3.00	Electricity and Magnetism						
		SC/PHYS 2211 1.00	Experimental Electromagnetism						
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	COURSES				GRADE					
Third Year Courses										
		LE/ENG 3000 3.00	Professional Engineering Practice							
		LE/EECS 3101 3.00	Design and Analysis of Algorithms							
		LE/EECS 3201 4.00	Digital Logic Design							
		LE/EECS 3213 3.00	Communication Networks							
		LE/EECS 3216 3.00	Digital Systems Engineering: Modeling, Implementation and Validation							
		LE/EECS 3221 3.00	Operating System Fundamentals							
		LE/EECS 3311 3.00	Software Design							
		LE/EECS 3451 4.00	Signals and Systems							
		ES/ENVS 2150 3.00 or LE/ESSE 2210 3.00	Environment, Technology and Sustainable Society I or Engineering and the Environment							
At least 6 additional credits from  SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1001 3.00, SC/CHEM  2011 3.00, LE/ESSE 1011 3.00, LE/ESSE 1012 3.00, SC/PHYS 1070 3.00  [alternatively SC/PHYS 1470 3.00], SC/PHYS 2010 3.00, SC/PHYS 2040  3.00, SC/PHYS 2060 3.00, HH/IHST 1001 3.00; HH/IHST 1002 3.00										
3 additional credits from EECS courses at 3000 or 4000 level										
Fourth Year Courses										
		LE/ENG 4000 6.00	Engineering Project							
		LE/EECS 4201 3.00	Computer Architecture							
		LE/EECS 4214 4.00	Digital Communications							
		LE/EECS 4312 3.00	Software Engineering Requirements							
Complementary Studies (12 credits)										
12 credits from  LE/EECS 3214 3.00, LE/EECS 3431 3.00, LE/EECS 3603 4.00², LE/EECS 3604 4.00², LE/FECS 3631 4.00², LE/FECS 4210 3.00², LE/FECS 4211 3.00, LE/EECS 4215 3.00², LE/EECS 4313 3.00, LE/EECS 4352 3.00², LE/EECS 4404 3.0, LE/EECS 4421 3.00², LE/EECS 4422 3.00², LE/EECS 4431 3.00², LE/EECS 4441 3.00, LE/EECS 4452 3.00, LE/EECS 4471 3.00, LE/ENG 3320 3.00, LE/ENG 4550 3.00 (LIST A Electrical Engineering technical elective courses*). **These 12 credits must incl. at least 2										
courses with significant lab experience.										
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)										
*List A Electrical Eng. technical electives: LE/EECS 3603 4.00; LE/EECS 3614 4.0; LE/EECS 3216 3.00, LE/EECS 3610 4.00, LE/EECS 3611 4.00, LE/EECS 3612 4.00, LE/EECS 4214 4.00, LE/EECS 4611 4.00, LE/EECS 4612 4.00, LE/EECS 4613 4.00, LE/EECS 4614 4.00										
General Prerequisite: Most 2000-, 3000-, and 4000-level EECS courses require the following general (that is, common) prerequisites, in addition to other course-specific prerequisites: a cumulative grade point average of 4.50 or better over all completed major EECS courses. Note: "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to: SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to: SC/MATH 1019 3.00).										
Participation in the Co-op Program is highly recommended for all engineering students, but is not a degree requirement.										
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