

	DEGREE CHECKLIST 2021-2022		BACHELOR OF ENGINEERING (BEng) ELECTRICAL ENGINEERING			
	NAME					
	STUDENT #					
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						
	<input type="checkbox"/>	SC/CHEM 1100 4.00	Chemistry and Materials Science for Engineers			
	<input type="checkbox"/>	LE/EECS 1011 3.00	Computational Thinking Through Mechatronics			
	<input type="checkbox"/>	LE/EECS 1021 3.00	Object Oriented Programming from Sensors to Actuators			
	<input type="checkbox"/>	LE/EECS 1028 3.00	Discrete Mathematics for Engineers			
	<input type="checkbox"/>	LE/ENG 1101 4.00	Renaissance Engineer 1: Ethics, Communication and Problem Solving			
	<input type="checkbox"/>	LE/ENG 1102 4.00	Renaissance Engineer 2: Engineering Design Principles			
	<input type="checkbox"/>	SC/MATH 1013 3.00	Applied Calculus I			
	<input type="checkbox"/>	SC/MATH 1014 3.00	Applied Calculus II			
	<input type="checkbox"/>	SC/MATH 1025 3.00	Applied Linear Algebra			
	<input type="checkbox"/>	SC/PHYS 1800 3.00	Engineering Mechanics			
	<input type="checkbox"/>	SC/PHYS 1801 3.00	Electricity, Magnetism and Optics for Engineers			
Second Year Courses						
	<input type="checkbox"/>	LE/EECS 2021 4.00	Computer Organization			
	<input type="checkbox"/>	LE/EECS 2032 4.00	Introduction to Embedded Systems			
	<input type="checkbox"/>	LE/EECS 2200 3.00	Electrical Circuits			
	<input type="checkbox"/>	LE/EECS 2210 3.00	Electronic Circuits and Devices			
	<input type="checkbox"/>	LE/EECS 3451 4.00	Signals and Systems			
	<input type="checkbox"/>	LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety			
	<input type="checkbox"/>	LE/ENG 2003 3.00	Effective Engineering Communication			
	<input type="checkbox"/>	SC/MATH 2015 3.00	Applied Multivariate and Vector Calculus			
	<input type="checkbox"/>	SC/MATH 2930 3.00	Introduction to Probability and Statistics			
	<input type="checkbox"/>	SC/PHYS 2020 3.00	Electricity and Magnetism			
	<input type="checkbox"/>	SC/PHYS 2211 1.00	Experimental Electromagnetism			
	<input type="checkbox"/>	At least 3 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				
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	COURSES			CREDITS EARNED	GRADE	
Third Year Courses						
	<input type="checkbox"/>	LE/EECS 3201 4.00	Digital Logic Design			
	<input type="checkbox"/>	LE/EECS 3604 4.00	Electromagnetic Theory and Wave Propagation			
	<input type="checkbox"/>	LE/EECS 3622 4.00	Introduction to Power Systems			
	<input type="checkbox"/>	LE/ENG 3000 3.00	Professional Engineering Practice			
	<input type="checkbox"/>	ES/ENVS 2150 3.00 or LE/ESSE 2210 3.00	Environment, Technology and Sustainable Society or Engineering and the Environment			
	<input type="checkbox"/>	LE/ENG 4550 3.00	Introduction to Control Systems			
EE Technical Electives see below (6 Credits)	<input type="checkbox"/>					
	<input type="checkbox"/>					
Complementary Studies (12 credits)	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
Fourth Year Courses						
Full year course	<input type="checkbox"/>	LE/ENG 4000 6.00	Engineering Project (Capstone)			
At least 37 additional credits of Electrical Engineering technical electives from the following two lists (normally to be taken in 3rd and 4th year):						
a) i. At least 22 credits from a list of EE major courses, ii. including a minimum of 8.0 credits from: 3603 4.00, 3611 4.00, 3641 4.00 List A: 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 4610 4.00, LE/EECS 4611 4.00, LE/EECS 4612 4.00, LE/EECS 4613 4.00, LE/EECS 4614 4.00, LE/EECS 4621 4.00, LE/EECS 4623 4.00, LE/EECS 4640 3.00, LE/EECS 4642 4.00, LE/EECS 4643 4.00,	<input type="checkbox"/>					
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b) Additional 15 credits from List A or B List B: LE/EECS 3213 3.00, LE/EECS 3214 3.00, LE/EECS 3221 3.00, LE/EECS 4201 3.00, LE/EECS 4210 3.00, LE/EECS 4215 3.00, LE/EECS 4221 3.00, LE/EECS 4352 3.00, LE/EECS 4403 3.00, LE/EECS 4404 3.00, LE/EECS 4413 3.00, LE/EECS 4421 3.00, LE/EECS 4422 3.00, LE/EECS 4452 3.00, LE/EECS 4471 3.00, LE/ENG 4650 3.00	<input type="checkbox"/>					
	<input type="checkbox"/>					
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	<input type="checkbox"/>					
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)						
<small>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).</small>						
<small>Participation in the Co-Op Program is highly recommended for all engineering students, but is not a degree requirement.</small>						
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