



**DEGREE CHECKLIST
2022-2023**

**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		

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

		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"/>	LE/ESSE 2210 3.00 or ES/ENVS 2150 3.00	Engineering and the Environment or Environment, Technology and Sustainable Society I			
	<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 (EE) technical electives from the following two lists (normally to be taken in 3rd and 4th year):						
a) At least 22 credits from List A, including a minimum of 8.0 credits from: LE/EECS 3603 4.00, LE/EECS 3611 4.00, LE/EECS 3641 4.00 List A: LE/EECS 3216 3.00, LE/EECS 3603 4.00, LE/EECS 3610 4.00, LE/EECS 3611 4.00, LE/EECS 3612 4.00, LE/EECS 3641 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 4622 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"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)						
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.						
Notes						
BEng, Electrical Engineering rev Oct 25, 2022				Page 2 of 2		