



**DEGREE CHECKLIST  
2019-2020**

**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/>

		<b>COURSES</b>	<b>CREDITS EARNED</b>	<b>GRADE</b>
<b>First Year Courses</b>				
	<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		
<b>Second Year Courses</b>				
	<input type="checkbox"/>	LE/EECS 2021 4.00 Computer Organization		
	<input type="checkbox"/>	LE/EECS 2030 3.00 Advanced Object Oriented Programming		
	<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 2602 4.00 Signals and Systems in Continuous Time		
	<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"/>	<b>At least 3 additional credits from</b> 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
<b>Third Year Courses</b>				
	<input type="checkbox"/>	LE/EECS 3201 4.00	Digital Logic Design	
	<input type="checkbox"/>	LE/EECS 3602 4.00	Systems and Random Processes in Discrete Time	
	<input type="checkbox"/>	LE/EECS 3603 4.00	Electromechanical Energy Conversion	
	<input type="checkbox"/>	LE/EECS 3604 4.00	Electromagnetic Theory and Wave Propagation	
	<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	
	<input type="checkbox"/>			
<b>EE Technical Electives see below (3-6 Credits)</b>	<input type="checkbox"/>			
<b>Complementary Studies (6 credits)</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>Fourth Year Courses</b>				
	<input type="checkbox"/>	LE/ENG 4000 6.00	Engineering Project	
<b>Complementary Studies (6 credits)</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>At least 31 additional credits of Electrical Engineering technical electives from the following two lists (normally to be taken in 3rd and 4th year):</b>				
<b>a) At least 19 credits from a list of EE major courses:</b> 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 4622 4.00, LE/EECS 4623 4.00, LE/EECS 4640 3.00, LE/EECS 4641 4.00, LE/EECS 4642 4.00, LE/EECS 4643 4.00, LE/EECS 4644 4.00	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>b) Additional credits from a list of general EECS courses below:</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	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>TOTAL CREDITS &amp; CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)</b>				
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.				
<b>Notes</b>				
<b>BEng, Electrical Engineering</b>				<b>Page 2 of 2</b>