



**DEGREE CHECKLIST
2018-2019**

**BACHELOR OF ENGINEERING (BEng)
COMPUTER 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"/>	SC/MATH 1090 3.00	Introduction to Logic for Computer Science		
<input type="checkbox"/>	LE/EECS 2011 3.00	Fundamentals of Data Structures		
<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/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		

	COURSES		CREDITS EARNED	GRADE	
Third Year Courses					
	<input type="checkbox"/>	LE/ENG 3000 3.00 Professional Engineering Practice			
	<input type="checkbox"/>	LE/EECS 3101 3.00 Design and Analysis of Algorithms			
	<input type="checkbox"/>	LE/EECS 3201 4.00 Digital Logic Design			
	<input type="checkbox"/>	LE/EECS 3213 3.00 Communication Networks			
	<input type="checkbox"/>	LE/EECS 3216 3.00 Digital Systems Engineering: Modeling, Implementation and Validation			
	<input type="checkbox"/>	LE/EECS 3221 3.00 Operating System Fundamentals			
	<input type="checkbox"/>	LE/EECS 3311 3.00 Software Design			
	<input type="checkbox"/>	LE/EECS 3451 4.00 Signals and Systems			
	<input type="checkbox"/>	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	<input type="checkbox"/>				
	<input type="checkbox"/>				
3 additional credits from EECS courses at 3000 or 4000 level	<input type="checkbox"/>				
Fourth Year Courses					
	<input type="checkbox"/>	LE/ENG 4000 6.00 Engineering Project			
	<input type="checkbox"/>	LE/EECS 4201 3.00 Computer Architecture			
	<input type="checkbox"/>	LE/EECS 4214 4.00 Digital Communications			
	<input type="checkbox"/>	LE/EECS 4312 3.00 Software Engineering Requirements			
Complementary Studies (12 credits)	<input type="checkbox"/>				
	<input type="checkbox"/>				
12 credits from LE/EECS 3214 3.00, LE/EECS 3431 3.00, LE/EECS 3603 4.00 ² , LE/EECS 3604 4.00 ² , LE/EECS 3611 4.00 ² , LE/EECS 4210 3.00 ² , LE/EECS 4211 3.00, LE/EECS 4215 3.00 ² , LE/EECS 4313 3.00, LE/EECS 4352 3.00 ² , LE/EECS 4404 3.0, LE/EECS 4421 3.00 ² , LE/EECS 4422 3.00 ² , LE/EECS 4431 3.00 ² , 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*). ² These 12 credits must incl. at least 2 courses with significant lab experience.	<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)					
*List A Electrical Eng. technical electives: 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, LE/EECS 4621 4.00, LE/EECS 4622 4.00, LE/EECS 4623 4.00, LE/EECS 4641 4.00, LE/EECS 4642 4.00, LE/EECS 4643 4.00, LE/EECS 4644 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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