LASSONDE SCHOOL OF ENGINEERING | YORK UNIVERSITÉ UNIVERSITY	**DEGREE CHECKLIST 2017-2018**	**BACHELOR OF ENGINEERING (BEng) CIVIL 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					
	☐	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/ENG 1101 4.00	Renaissance Engineer 1: Ethics, Communication and Problem Solving		
	☐	LE/ENG 1102 4.00	Renaissance Engineer 2: Engineering Design Principles		
	☐	LE/ESSE 1012 3.00	The Earth Environment		
	☐	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					
	☐	LE/CIVL 2000 3.00	Civil Engineering Design Project		
	☐	LE/CIVL 2120 3.00	Civil Engineering Materials		
	☐	LE/CIVL 2150 3.00	Civil Engineering Graphics		
	☐	LE/CIVL 2210 4.00	Fluid Mechanics		
	☐	LE/CIVL 2220 4.00	Mechanics of Materials		
	☐	LE/CIVL 2240 3.00	Introduction to Environmental Engineering		
	☐	LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety		
	☐	LE/ENG 2003 3.00	Effective Engineering Communication		
	☐	LE/ESSE 2620 3.00	Fundamentals of Surveying		
	☐	LE/ESSE 2630 3.00	Field Surveys		
	☐	SC/MATH 2015 3.00	Applied Multivariate and Vector Calculus		
	☐	SC/MATH 2271 3.00	Differential Equations for Scientists and Engineers		
	☐	SC/MATH 2930 3.00	Introduction to Probability and Statistics		

	COURSES			CREDITS EARNED	GRADE
Third Year Courses					
	☐	LE/CIVL 3110 3.00	Soil Mechanics		
	☐	LE/CIVL 3120 4.00	Hydraulics		
	☐	LE/CIVL 3130 3.00	Structural Analysis		
	☐	LE/CIVL 3140 3.00	Civil Engineering Computational Methods		
	☐	LE/CIVL 3210 3.00	Geotechnical Engineering		
	☐	LE/CIVL 3220 3.00	Hydrology		
	☐	LE/CIVL 3230 3.00	Introduction to Structural Design		
	☐	LE/CIVL 3240 3.00	Sanitary and Environmental Engineering		
	☐	LE/CIVL 3250 3.00	Transportation Engineering		
	☐	LE/ENG 3000 3.00	Professional Engineering Practice		
	☐	ES/ENVS 2150 3.00 or LE/ESSE 2210 3.00	Environment, Technology and Sustainable Society I OR Engineering and the Environment		
Complementary Studies (3 credits)	☐				
Fourth Year Courses					
	☐	LE/CIVL 4110 3.00	Civil Engineering Project Management		
	☐	LE/CIVL 4210 3.00	Civil Engineering for a Sustainable Future		
	☐	LE/CIVL 4000 6.00	Civil Engineering Capstone Design Project		
Complementary Studies (9 credits)	☐				
	☐				
	☐				
Technical Electives					
Four Technical Electives from Group A to E, with a maximum of 2 from the same group; and One Technical Elective from Group F (for a total of 5):					
Group A - Structures	☐	LE/CIVL 4001 3.00	Advanced Structural Analysis		
	☐	LE/CIVL 4002 3.00	Reinforced Concrete Design		
	☐	LE/CIVL 4003 3.00	Structural Steel Design		
	☐	LE/CIVL 4004 3.00	Structural Dynamics and Earthquake Engineering		
Group B - Geotechnical	☐	LE/CIVL 4011 3.00	Geotechnical Modelling		
	☐	LE/CIVL 4012 3.00	Mechanics of Unsaturated Soils		
	☐	LE/CIVL 4013 3.00	Hydrogeology		
	☐	LE/CIVL 4014 3.00	Rock Mechanics		

	COURSES			CREDITS EARNED	GRADE
Group C - Hydrotechnical	☐	LE/CIVL 4021 3.00	Hydraulic Structures		
	☐	LE/CIVL 4022 3.00	Water Resources Engineering		
Group D - Transportation	☐	LE/CIVL 4031 3.00	Pavement Materials and Design		
	☐	LE/CIVL 4032 3.00	Urban Transportation Planning and Evaluation		
	☐	LE/CIVL 4033 3.00	Municipal Planning		
Group E - Environmental	☐	LE/CIVL 4041 3.00	Landfill Design		
	☐	LE/CIVL 4042 3.00	Environmental Impact Assessment and Sustainability		
	☐	LE/CIVL 4043 3.00	Advanced Sanitary and Environmental Engineering		
Group F - Other Engineering Disciplines: Any 3rd or 4th year engineering course from outside Civil Engineering to be approved by the Civil Engineering UPD	☐				
	☐				
	☐				
	☐				
	☐				

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