



**DEGREE CHECKLIST  
2019-2020**

**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/>

	<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/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"/>	LE/ESSE 1012 3.00 The Earth Environment		
	<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/CIVL 2000 3.00 Civil Engineering Design Project		
	<input type="checkbox"/>	LE/CIVL 2120 3.00 Civil Engineering Materials		
	<input type="checkbox"/>	LE/CIVL 2150 3.00 Civil Engineering Graphics		
	<input type="checkbox"/>	LE/CIVL 2160 3.00 Geological Processes		
	<input type="checkbox"/>	LE/CIVL 2210 4.00 Fluid Mechanics		
	<input type="checkbox"/>	LE/CIVL 2220 4.00 Mechanics of Materials		
	<input type="checkbox"/>	LE/CIVL 2240 3.00 Introduction to Environmental Engineering		
	<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"/>	LE/ESSE 2635 3.00 Land Surveying for Civil Engineers		
	<input type="checkbox"/>	SC/MATH 2015 3.00 Applied Multivariate and Vector Calculus		
	<input type="checkbox"/>	SC/MATH 2271 3.00 Differential Equations for Scientists and Engineers		
	<input type="checkbox"/>	SC/MATH 2930 3.00 Introduction to Probability and Statistics		
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	COURSES		CREDITS EARNED	GRADE
<b>Third Year Courses</b>				
	<input type="checkbox"/>	LE/CIVL 3110 3.00 Soil Mechanics		
	<input type="checkbox"/>	LE/CIVL 3120 4.00 Hydraulics		
	<input type="checkbox"/>	LE/CIVL 3130 4.00 Structural Analysis		
	<input type="checkbox"/>	LE/CIVL 3140 3.00 Civil Engineering Computational Methods		
	<input type="checkbox"/>	LE/CIVL 3160 3.00 Transportation Engineering		
	<input type="checkbox"/>	LE/CIVL 3210 3.00 Geotechnical Engineering		
	<input type="checkbox"/>	LE/CIVL 3220 3.00 Hydrology		
	<input type="checkbox"/>	LE/CIVL 3230 4.00 Introduction to Structural Design		
	<input type="checkbox"/>	LE/CIVL 3240 3.00 Sanitary and Environmental Engineering		
	<input type="checkbox"/>	LE/CIVL 3260 3.00 Transportation Planning & Evaluation		
	<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 I OR Engineering and the Environment		
<b>Fourth Year Courses</b>				
	<input type="checkbox"/>	LE/CIVL 4110 3.00 Civil Engineering Project Management		
	<input type="checkbox"/>	LE/CIVL 4210 3.00 Civil Engineering for a Sustainable Future		
	<input type="checkbox"/>	LE/CIVL 4000 6.00 Civil Engineering Capstone Design Project		
<b>Complementary Studies (12 credits)</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>Technical Electives</b>				
Four Technical Electives from Group A to E, with a maximum of three Electives from the same Group:				
<b>Group A - Structures</b>	<input type="checkbox"/>	LE/CIVL 4001 3.00 Advanced Structural Analysis		
	<input type="checkbox"/>	LE/CIVL 4002 3.00 Reinforced Concrete Design		
	<input type="checkbox"/>	LE/CIVL 4003 3.00 Structural Steel Design		
	<input type="checkbox"/>	LE/CIVL 4004 3.00 Structural Dynamics and Earthquake Engineering		
<b>Group B - Geotechnical</b>	<input type="checkbox"/>	LE/CIVL 4011 3.00 Geotechnical Modelling		
	<input type="checkbox"/>	LE/CIVL 4012 3.00 Mechanics of Unsaturated Soils		
	<input type="checkbox"/>	LE/CIVL 4013 3.00 Hydrogeology		
	<input type="checkbox"/>	LE/CIVL 4015 3.00 Frozen Ground Engineering		
	<input type="checkbox"/>	LE/CIVL 4016 3.00 Geological Engineering and Design		
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