



**DEGREE CHECKLIST  
2016-2017**

**BACHELOR OF ENGINEERING (BEng)  
MECHANICAL 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/ENG 2001 3.00 Engineering Projects: Management, Economics & Safety		
<input type="checkbox"/>	LE/MECH 2401 3.00 Engineering Graphics & CAD Modelling		
<input type="checkbox"/>	LE/MECH 2412 3.00 Mini Design Project 1		
<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"/>	LE/MECH 2112 3.00 Mechanical Engineering: Professionalism and Society		
<input type="checkbox"/>	LE/MECH 2201 3.00 Thermodynamics		
<input type="checkbox"/>	LE/MECH 2202 3.00 Heat and Flow Engineering Principles		
<input type="checkbox"/>	LE/MECH 2301 3.00 Mechanics of Materials 1		
<input type="checkbox"/>	LE/MECH 2302 3.00 Dynamics		
<input type="checkbox"/>	LE/MECH 2409 3.00 Machine Elements Design		
<input type="checkbox"/>	LE/MECH 2502 3.00 Instrumentation and Measurement Techniques		

	COURSES		CREDITS EARNED	GRADE
<b>Third Year Courses</b>				
	<input type="checkbox"/>	LE/EECS 3505 3.00 Electrical Systems for Mechanical Engineers		
	<input type="checkbox"/>	LE/ENG 2003 3.00 Effective Engineering Communication		
	<input type="checkbox"/>	ES/ENVS 2150 3.00 Environment, Technology and Sustainable Society I or LE/ESSE 2210 3.00 Engineering and the Environment		
	<input type="checkbox"/>	SC/MATH 2271 3.00 Differential Equations for Scientists and Engineers		
	<input type="checkbox"/>	LE/MECH 3201 3.00 Engineering Thermodynamics		
	<input type="checkbox"/>	LE/MECH 3202 3.00 Fluid Dynamics		
	<input type="checkbox"/>	LE/MECH 3203 3.00 Heat & Mass Transfer		
	<input type="checkbox"/>	LE/MECH 3302 3.00 Mechanisms for Mechanical Systems		
	<input type="checkbox"/>	LE/MECH 3401 3.00 Mini Design Project 2		
	<input type="checkbox"/>	LE/MECH 3502 3.00 Solid Mechanics and Materials Laboratory		
	<input type="checkbox"/>	LE/MECH 3503 3.00 Macro- and Micro-Manufacturing Methods		
	<input type="checkbox"/>	LE/MECH 3504 3.00 Thermofluid Laboratory		
<b>Complementary Studies (3 credits)</b>	<input type="checkbox"/>			
<b>Fourth Year Courses</b>				
	<input type="checkbox"/>	LE/ENG 3000 3.00 Professional Engineering Practice		
	<input type="checkbox"/>	LE/ENG 4000 6.00 Engineering Project		
	<input type="checkbox"/>	LE/ENG 4550 3.00 Introduction to Control Systems		
	<input type="checkbox"/>	LE/MECH 4201 3.00 Transport Phenomenon		
	<input type="checkbox"/>	LE/MECH 4401 3.00 System Level Engineering		
	<input type="checkbox"/>	LE/MECH 4402 4.00 Application of Simulation Tools for Design & Analysis		
	<input type="checkbox"/>	LE/MECH 4502 3.00 Vibrations and Actuators		
	<input type="checkbox"/>	LE/MECH 4504 3.00 Life Cycle Analysis and Sustainability		
	<input type="checkbox"/>	LE/MECH 4510 3.00 Introduction to Advanced and Unusual Mechanical Technology		
<b>Complementary Studies (9 credits)</b>	<input type="checkbox"/>			
<b>Complementary Studies (9 credits)</b>	<input type="checkbox"/>			
<b>Complementary Studies (9 credits)</b>	<input type="checkbox"/>			
<b>TOTAL CREDITS &amp; CGPA</b> (minimum overall GPA of 5.00 required to graduate in the BEng program)				
<p>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).</p> <p>Participation in the Co-Op Program is highly recommended for all engineering students, but is not a degree requirement.</p>				
<b>BEng, Mechanical Engineering</b>			<b>Page 2 of 2</b>	