LASSONDE LOCAL OF DEBARRAGE	DEGREE CHECKLIST 2023-2024	· 3,
	NAME	
	STUDENT #	

Students are strongly advised to refer to	online	Academic Calendars b	efore enrolling into courses: http://calendars.reg	istrar.yorku	.ca/						
	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/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety								
		LE/ENG 2003 3.00	Effective Engineering Communication								
		LE/ESSE 2030 3.00	Geophysics and Space Science								
		LE/ESSE 2220 3.00	Algorithmic and Computational methods for Geomatics and Space Engineering								
		LE/ESSE 2361 3.00	Space Systems Engineering								
		LE/ESSE 2470 3.00	Introduction to Continuum Mechanics								
		LE/MECH 2302 3.00	Dynamics								
		LE/MECH 2401 3.00	Engineering Graphics & CAD Modelling								
		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								
		SC/PHYS 2020 3.00	Electricity and Magnetism								
Complementary Studies (3 credits)											
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	COURSES			CREDITS EARNED	GRADE				
		Third Year C	ourses						
		LE/ENG 3000 3.00	Professional Engineering Practice						
		LE/ESSE 3330 3.00	Materials for Space Applications						
		LE/ESSE 2210 3.00	Engineering and the Environment						
		LE/ESSE 3280 3.00	Physics of the Space Environment						
		LE/ESSE 3360 3.00	Heat Transfer and Thermal Design						
		LE/ESSE 3380 4.00	Introduction to Mechatronics						
		LE/MECH 3302 3.00	Mechanisms for Mechanical Systems						
		LE/MECH 3409 3.00	Machine Elements Design						
		SC/PHYS 3050 3.00	Electronics I						
		SC/PHYS 3150 3.00	Electronics II						
Complementary Studies (3 credits)									
		Fourth Year (Courses						
		LE/ENG 4000 6.00	Engineering Project						
		LE/ESSE 4020 3.00	Time Series and Spectral Analysis						
		LE/ESSE 4110 3.00	Dynamics of Space Vehicles						
		LE/ESSE 4350 6.00	Space Hardware						
		LE/ESSE 4360 3.00	Payload Design						
		LE/ESSE 4361 3.00	Space Mission Design						
		LE/ESSE 4370 3.00	Finite Element Methods in Engineering Design						
		LE/ENG 4550 3.00	Introduction to Control Systems						
Two of: LE/EECS 4421 3.00, LE/ESSE 3320 3.00, LE/ENG 4330 3.00, LE/ENG 4650 3.00, LE/ESSE 3020 3.00, LE/ESSE 3670 3.00, LE/ESSE 4220 3.00, LE/ESSE 4230 3.00, LE/ESSE 4380 4.00, SC/PHYS 3070 3.00, SC/PHYS 4120 3.00									
Complementary Studies (6 credits)									
TOTAL CREDITS &	CGPA (minimum overall GPA of 5.	00 required to graduate in the BEng program)						
prerequisites: a cumulative grade point average of 4.50 or	better o	over all completed major E	wing general (that is, common) prerequisites, in addition to ECS courses. Note: "Major" courses are all EECS courses wit and LE/EECS 1019 3.00 (cross-listed to: SC/MATH 1019 3.0	th second digit					
Participation in the Co-Op Pro	ogram is	s highly recommended for a Please visit: coop.lass	all engineering students, but is not a degree requirement. onde.yorku.ca/						
Notes									
			BEng, Space Engineering	Page 2	2 of 2				