YORK	DEGREE CHECKLIST 2023-2024	4 BIG DATA STREAM					
	NAME STUDENT #						
		ademic Calendars before enrollin	g 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/EECS 1028 3.00	Discrete Mathematics for Engineers				
		LE/ENG 1101 4.00	Renaissance Engineer 1: Ethics, Communication and Problem Solving				
		LE/ENG 1102 4.00	Renaissance Engineer 2: Engineering Design Principles				
		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	1				
		SC/MATH 1090 3.00	Introduction to Logic for Computer Science				
		LE/EECS 2101 3.00	Fundamentals of Data Structures				
		LE/EECS 2021 4.00	Computer Organization				
		LE/EECS 2030 3.00	Advanced Object Oriented Programming				
		LE/EECS 2032 4.00	Introduction to Embedded Systems				
		LE/EECS 2200 3.00	Electrical Circuits				
		LE/EECS 2311 3.00	Software Development Project				
		LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety				
		LE/ENG 2003 3.00	Effective Engineering Communication				
		SC/MATH 2015 3.00	Applied Multivariate and Vector Calculus				
		SC/MATH 2930 3.00	Introduction to Probability and Statistics				
		SC/PHYS 2020 3.00	Electricity and Magnetism				
		SC/PHYS 2211 1.00	Experimental Electromagnetism				
	I		BEng, Software Engineering, Big Data Stream	Page	1 of 2		

		Third Year Courses					
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		LE/EECS 3101 3.00	Design and Analysis of Algorithms				
		LE/EECS 3201 4.00	Digital Logic Design				
Big Data Stream		LE/EECS 3421 3.0	Introduction to Database Systems				
		LE/EECS 3216 3.00	Digital Systems Engineering: Modeling, Implementation and Validation				
		LE/EECS 3221 3.00	Operating System Fundamentals				
		LE/EECS 3311 3.00	Software Design				
		LE/EECS 3342 3.00	System Specification and Refinement				
		LE/ENG 3000 3.00	Professional Engineering Practice				
		LE/ESSE 2210 3.00	Engineering and the Environment				
At least 3 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, 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							
Consideration (Consideration)							
Complementary Studies (6 credits)							
		Fourth Year Courses					
Complementary Studies (6 credits)							
		LE/EECS 4312 3.00	Software Engineering Requirements				
		LE/EECS 4313 3.00	Software Engineering Testing				
		LE/EECS 4314 3.00					
			Advanced Software Engineering				
		LE/EECS 4315 3.00	Mission-Critical Systems				
		LE/EECS 4413 3.00	Building E-Commerce Systems				
Big Data Stream		LE/EECS 4404 3.0	Introduction to Machine Learning and Pattern Recognition				
Big Data Stream		LE/EECS 4412 3.0	Data Mining				
Big Data Stream		LE/EECS 4415 3.0	Big Data Systems				
Big Data Stream		LE/EECS 4411 3.0 or	Database Management Systems or				
		LE/EECS 4414 3.0	Information Networks				
Full year course Image: Let ENG 4000 6.00 Engineering Project							
TOTAL CREDITS & CGPA (min	imum o	verall GPA of 5.00 require	d to graduate in the BEng program)				
General Prerequisite: Most 2000-, 3000-, and 4000-level EECS courses require grade point average of 4.50 or better over all completed major EECS courses. No SC/MATH 1028 3.00)	ote: "M	ajor" courses are all EECS o					
Participation in the Co-Op Program is hig	hly reco	ommended for all engineer	ing students, but is not a degree requirement.				
		Notes					
BEng, Software Engineering, Big Data Stream Page 2 of 2							