

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: https://calendars.students.yorku.ca/academic-calendar#/programs							
	COURSES		CREDITS EARNED	GRADE			
	F	irst 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							
		SC/MATH 1090 3.00	Introduction to Logic for Computer Science				
		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 2101 3.00	Fundamentals of Data Structures				
□ 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				
Notes							
		BE	ng, Software Engineering, General Stream	Page :	L of 2		

COURSES				CREDITS EARNED	GRADE
Third Y	ear Co	ourses			
		LE/EECS 3101 3.00	Design and Analysis of Algorithms		
		LE/EECS 3201 4.00	Digital Logic Design		
		LE/EECS 3221 3.00	Operating System Fundamentals		
		LE/EECS 3311 3.00	Software Design		
General Stream		LE/EECS 3451 4.00	Signals and Systems		
		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 3.00 additional credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, E/ESSE 1011 3.00, LE/ESSE 1012 3.00, SC/PHYS 1070 3.00 (or SC/PHYS 1470 3.00), SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, SC/PHYS 2060 3.00, HH/GH 1001 3.00, HH/GH 1002 3.00					
Complementary Studies (9.00 credits)					
		Fourth Year Courses			
		LE/EECS 3216 3.00	Digital Systems Engineering: Modeling, Implementation and Validation		
		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		
General Stream		LE/EECS 3452 3.00	Linear Control Systems		
		LE/ENG 4000 6.00	Engineering Project		
lus 9.00 additional credits from computer science courses at the 3000 and 4000 level. At least 6.00 of these credits must be from the following list:					
LE/EECS 3214 3.00, LE/EECS 3405 3.00, LE/EECS 3421 3.00, LE/EECS 3461 3.00, LE/EECS 3481 3.00, LE/EECS 3482 3.00, LE/EECS 4214 3.00, LE/EECS 4215 3.00,					
LE/EECS 4405 3.00, LE/EECS 4411 3.00, LE/EECS 4412 3.00, LE/EECS 4441 3.00, LE/EECS 4481 4.00, LE/EECS 4482 3.00					
Complementary Studies (3.00 credits)					
TOTAL CGPA (minimum cumula	tive GP/	A of 5.00 (C+) required to gradu	ate with an Honours degree)		
Most 2000-, 3000-, and 4000-level EECS courses require a cumulative GPA or 4.5 courses with second digit other than 5 and include LE/EECS 1028 3	or bette .00 (cro		0) and LE/EECS 1019 3.00 (cross-listed to: SC/MATH		re all EECS
		Notes			
		Notes			
			REng Software Engineering General Stream	Do ac	2 of 2

Complementary Studies - BEng General Education

Essentials

- You need to pass a total of 12 credits to satisfy this requirement
- These credits are typically completed throughout **second**, **third**, **and fourth year**
- You need to pass at least 3 credits from approved humanities/social science subject areas
- The remaining 9 credits must be completed from the humanities/social science subject areas listed on page 1 or the specified courses listed on page 2
- If you wish, you may complete all 12 credits in the approved humanities/social science subject areas

Restrictions & Reminders

- Unless specified with an asterisk (*), Faculty of Science (SC) courses and courses cross-listed to
 Faculty of Science, do not count towards the humanities/social science component
 (e.g. AP/HIST 2810 3.00 History of Modern Science is cross-listed to SC/STS 2010 3.00 and
 therefore does not count towards Complementary Studies)
- Courses with a focus on math or statistics **do not** count (e.g. MODR 1650)
- PHIL 2100 3.00 Introduction to Logic does not count.

Approved Humanities/Social Science Subject Areas:

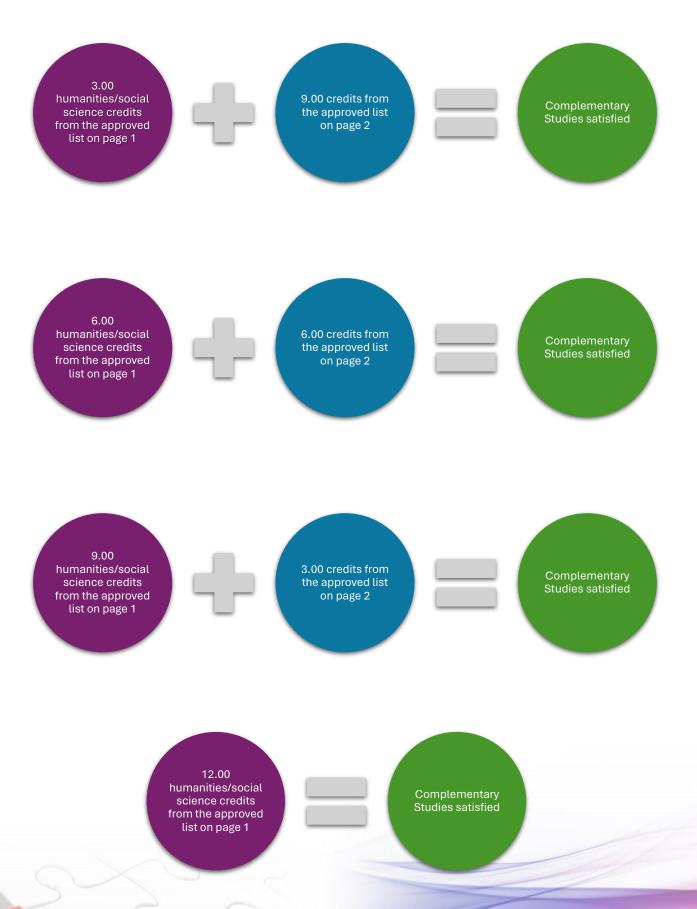
Students must complete at least 3 credits from the subject areas listed below:					
Anthropology (ANTH) Canadian Studies (CDNS) Children, Childhood & Youth Studies (CCY) Communications (COMS, CMDS) Culture (CLTR)	English (EN) Gender & Women's Studies (GWST) History (HIST) Human Rights and Equity Studies (HREQ) Humanities (HUMA)	Indigenous Studies (INDG) Linguistics (LING, LIN) Modes of Reasoning (MODR) Multicultural and Indigenous Studies (MIST)	Philosophy (PHIL) Political Science (POLS) Religious Studies (RLST) Social Science (SOSC) Sociology (SOCI) Writing (WRIT)		
American Sign Language (ASL) Arabic (ARB) Catalan (CAT) Chinese (CH) Greek (GK)	Modern Greek (GKM) English as a Second Language (ESL) French as a Second Language (FSL) French (FR, FRAN)	German (GR) Hebrew (HEB)Hindi (HND) Italian (IT) Jamaican Creole (JC) Japanese (JP)	Korean (KOR) Latin (LA) Persian (PERS) Portuguese (POR) Spanish (SP) Swahili (SWAH)		

The remaining 9 credits must be completed from the humanities/social science subject areas listed on page 1 or the specified courses listed below:

AP/ADMS 1000 3.00	EU/ENVS 3230 3.00	EU/GEOG 2110 3.00	FA/THEA 1500 6.00
AP/ADMS 1010 3.00	EU/ENVS 3320 3.00	EU/GEOG 2220 3.00	FA/THEA1520 3.00
AP/DEMS 1701 3.00	EU/ENVS 3340 3.00	EU/GEOG 2310 6.00	FA/THEA 1900 3.00
AP/DEMS 2700 3.00	EU/ENVS 3410 3.00	EU/GEOG 3070 3.00	FA/THEA 2060 3.00
AP/DEMS 3706 3.00	EU/ENVS 3420 3.00	EU/GEOG 3150 3.00	FA/YSDN 1900 3.00
AP/DEMS 3707 3.00	EU/ENVS 3430 3.00	EU/GEOG 3230 3.00	HH/IHST 1020 6.00
AP/DEMS 3708 3.00	EU/ENVS 3505 3.00	FA/ARTH 1900 3.00	HH/PSYC1010 6.00
AP/DLLL 1000 6.00	EU/ENVS 3520 3.00	FA/ARTH 2350 3.00	LE/TECL1000 3.00
AP/ECON 1000 3.00	EU/ENVS 3740 3.00	FA/ARTH 2390 3.00	LE/TECL3033 3.00
AP/ECON 1010 3.00	EU/ENVS 4011 3.00	FA/ARTH 2620 3.00	LE/TECL 3099 3.00
AP/HUMA 3226 3.00*	EU/ENVS 4140 3.00	FA/CMA 1401 6.00	LW/LAW 3591 3.00
AP/LLS 1000 6.00	EU/ENVS 4161 3.00	FA/CMA 1701 3.00	SB/ENTR 3400 3.00
AP/PPAS 2110 3.00	EU/ENVS 4210 3.00	FA/CMA 1900 3.00	SB/ENTR 3600 3.00
AP/PPAS 2200 3.00	EU/ENVS 4220 3.00	FA/CMA 2401 6.00	SB/ENTR 4500 3.00
AP/PPAS 3000 3.00	EU/ENVS 4225 3.00	FA/DANC 1340 3.00	SC/BC 3010 3.00
AP/PPAS 3120 3.00	EU/ENVS 4230 3.00	FA/DANC 1900 3.00	SC/STS 1411 3.00
AP/PPAS 3122 3.00	EU/ENVS 4400 3.00	FA/DANC 2340 3.00	SC/STS 2110 3.00*
AP/PPAS 3135 3.00	EU/ENVS 4401 3.00	FA/DATT 1900 3.00	SC/STS 2210 3.00
AP/PPAS 3136 3.00	EU/ENVS4402 3.00	FA/MUSI 1500 6.00	SC/STS 2222 3.00
AP/PPAS 3190 6.00	EU/ENVS4420 3.00	FA/MUSI 1510 3.00	SC/STS 2333 3.00
EU/ENVS 3122 3.00	EU/ENVS4430 3.00	FA/MUSI 1520 6.00	SC/STS 2411 3.00
EU/ENVS 3130 3.00	EU/ENVS4440 3.00	FA/MUSI 1530 3.00	SC/STS 3170 3.00*
EU/ENVS 3150 3.00	EU/ENVS4442 3.00	FA/MUSI 1540 6.00	SC/STS 3500 3.00
EU/ENVS 3151 3.00	EU/ENVS4446 3.00	FA/MUSI 1550 6.00	SC/STS 3561 3.00*
EU/ENVS 3160 3.00	EU/ENVS4520 3.00	FA/MUSI 1556 3.00	SC/STS 3600 3.00
EU/ENVS 3170 3.00	EU/ENVS4523 3.00	FA/MUSI 1580 6.00	SC/STS 3725 3.00*
EU/ENVS 3222 3.00	EU/ENVS4800Q 3.00	FA/MUSI 1900 3.00	SC/STS 3726 3.00
EU/ENVS 3226 3.00	EU/GEOG1000 6.00	FA/MUSI 2520 6.00	SC/STS 3765 3.00
			SC/STS 3790 3.00

^{*}AP/HUMA 3226 3.00, SC/STS 2110 3.00, SC/STS 3170 3.00, SC/STS 3561 3.00, and SC/STS 3725 3.00 count as approved humanities/social science credits.

The following sample combinations demonstrate how complementary studies can be satisfied:



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Lassonde Academic Advising
calendars.students.yorku.ca/faculty/lassonde-school-of-engineering