YORK	DEGREE CHECKLIST 2024-2025	, <i>u</i> ,
LASSONDE	NAME	
	STUDENT #	

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: https://calendars.students.vorku.ca/academic-calendar#/programs

nttps://caiendars.students.yorku.ca/academic-caiendar#/programs					
	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/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/CIVL 2000 3.00	Civil Engineering Design Project		
		LE/CIVL 2120 3.00	Civil Engineering Materials		
		LE/CIVL 2150 3.00	Civil Engineering Graphics		
		LE/CIVL 2160 3.00	Geological Processes		
		LE/CIVL 2210 4.00	Fluid Mechanics		
		LE/CIVL 2220 4.00	Mechanics of Materials		
		LE/CIVL 2240 3.00	Introduction to Environmental Engineering		
		LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety		
		LE/ENG 2003 3.00	Effective Engineering Communication		
Two-week survey course should be completed in the Summer after 2nd year in order to meet 3rd year pre- requisites.		LE/ESSE 2635 3.00	Land Surveying for Civil Engineers		
		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		
			BEng, Civil Engineering	Page	1 of 3

			COURSES	CREDITS EARNED	GRADE	
Third Year Courses						
		LE/CIVL 3110 3.00	Soil Mechanics			
		LE/CIVL 3120 4.00	Hydraulics			
		LE/CIVL 3130 4.00	Structural Analysis			
		LE/CIVL 3140 3.00	Civil Engineering Computational Methods			
		LE/CIVL 3160 3.00	Transportation Engineering			
		LE/CIVL 3210 3.00	Geotechnical Engineering			
		LE/CIVL 3220 3.00	Hydrology			
		LE/CIVL 3230 4.00	Introduction to Structural Design			
		LE/CIVL 3240 3.00	Sanitary and Environmental Engineering			
		LE/CIVL 3260 3.00	Transportation Planning & Evaluation			
		LE/ENG 3000 3.00	Professional Engineering Practice			
		LE/ESSE 2210 3.00	Engineering and the Environment			
		Fourth	n Year Courses			
		LE/CIVL 4110 3.00	Civil Engineering Project Management			
		LE/CIVL 4210 3.00	Civil Engineering for a Sustainable Future			
Prerequisites: LE/ENG 2003 3.00, LE/ENG 3000 3.00, and all LE/CIVL 2XXX & 3XXX-level courses		LE/CIVL 4000 6.00	Civil Engineering Capstone Design Project			
Complementary Studies (42 00 and the)						
Complementary Studies (12.00 credits)						
		Techn	ical Electives			
Four Technical Electives from Group A to E, with a maximum of three electives from the same Group:						
		LE/CIVL 4001 3.00	Advanced Structural Analysis			
		LE/CIVL 4002 3.00	Reinforced Concrete Design			
Group A - Structures		LE/CIVL 4003 3.00	Structural Steel Design			
		LE/CIVL 4004 3.00	Structural Dynamics and Earthquake Engineering			
		LE/CIVL 4005 3.00	Wood Engineering			
		LE/CIVL 4011 3.00	Geotechnical Modelling			
		LE/CIVL 4012 3.00	Mechanics of Unsaturated Soils			
		LE/CIVL 4013 3.00	Hydrogeology			
Group B - Geotechnical		LE/CIVL 4015 3.00	Frozen Ground Engineering			
		LE/CIVL 4016 3.00	Geological Engineering and Design			
		LE/CIVL 4031 3.00	Pavement Materials and Design			
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	Te	echnical Electives C	ontinued	CREDITS EARNED	GRADE
		LE/CIVL 4021 3.00	Hydraulic Structures		
Group C - Hydrotechnical		LE/CIVL 4022 3.00	Water Resources Engineering		
Group C Trydrotechnical		LE/CIVL 4023 3.00	Advanced Techniques in Hydrotechnical Engineering		
		LE/CIVL 4024 3.00	Environmental Fluid Mechanics		
Group D - Transportation		LE/CIVL 4033 3.00	Traffic Simulation Modelling		
Group D - Hansportation		LE/CIVL 4034 3.00	Freight Transportation		
		LE/CIVL 4041 3.00	Landfill Design		
Group E - Environmental		LE/CIVL 4042 3.00	Environmental Impact Assessment and Sustainability		
Gloup E - Elivironmentar		LE/CIVL 4043 3.00	Advanced Sanitary and Environmental Engineering		
		LE/CIVL 4044 3.00	Environmental Geotechnics		
TOTAL	L CGPA (mini	mum cumulative GPA o	f 5.00 (C+) required to graduate with an Honours degree)		
	Participat	ion in Co-op is highly r	ecommended, but is not a degree requirement.		
			Notes		
			BEng, Civil Engi	neering Page	d of 3

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:

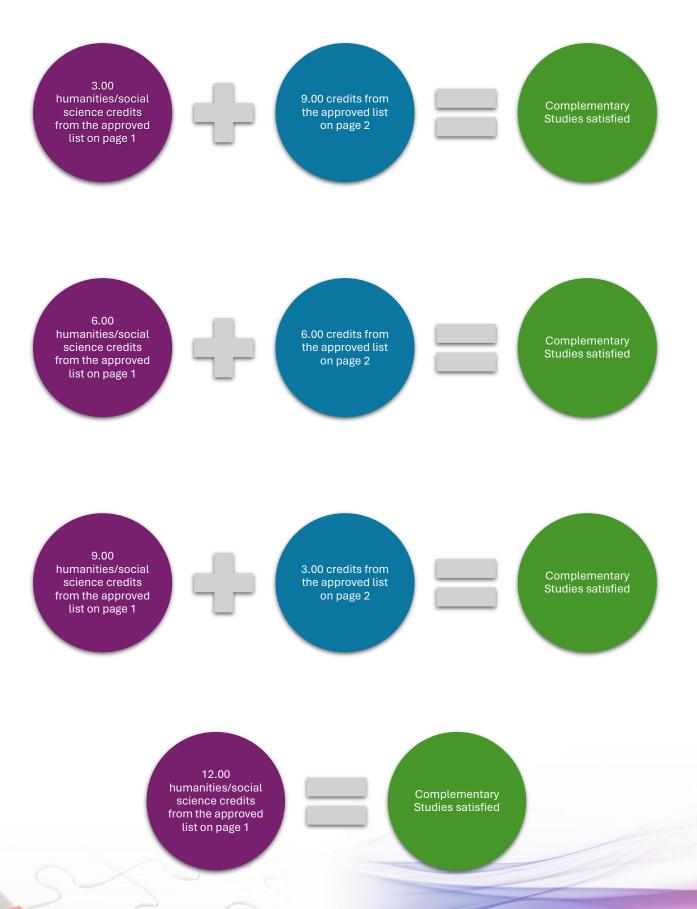
Students must complete at least 3 credits from the subject areas listed below:							
Anthropology (ANTH) Canadian Studies (CDNS) Children, Childhood & Youth Studies (CCY) Communications (COMS, CMDS) Culture (CLTR)	English (EN) Gender & Women's Studies (GWST) History (HIST) Human Rights and Equity Studies (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