



**First Year Courses
2024-2025**

BACHELOR OF ENGINEERING (BENG)

The following list contains required major courses for students intending to pursue
Computer, Electrical or Software Engineering

NAME

STUDENT #

FIRST YEAR COURSES

	<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
Prerequisite: LE/EECS 1011 3.00	<input type="checkbox"/>	LE/EECS 1021 3.00	Object Oriented Programming from Sensors to Actuators
	<input type="checkbox"/>	LE/ENG 1101 4.00	Renaissance Engineering 1: Ethics, Communication and Problem Solving
Prerequisite: LE/ENG 1101 4.00	<input type="checkbox"/>	LE/ENG 1102 4.00	Renaissance Engineering 2: Engineering Design Principles
	<input type="checkbox"/>	LE/EECS 1028 3.00	Discrete Mathematics for Engineers
	<input type="checkbox"/>	SC/MATH 1013 3.00	Applied Calculus I
Prerequisite: SC/MATH 1013 3.00	<input type="checkbox"/>	SC/MATH 1014 3.00	Applied Calculus II
	<input type="checkbox"/>	SC/MATH 1025 3.00	Applied Linear Algebra
Corequisite: SC/MATH 1013 3.00	<input type="checkbox"/>	SC/PHYS 1800 3.00	Engineering Mechanics
Prerequisite: SC/PHYS 1800 3.00 Corequisite: SC/MATH 1014 3.00	<input type="checkbox"/>	SC/PHYS 1801 3.00	Electricity, Magnetism and Optics for Engineers

Complete LE/EECS 1028 3.00 if you are declaring Computer, Electrical or Software Engineering as your major.
If you wish to declare Mechanical, Civil, or Space Engineering please notify a member of the Academic Advising team.
You would be expected to complete LE/ESSE 1012 3.00 instead.

NOTES FROM YOUR ACADEMIC ADVISOR

IMPORTANT REMINDERS

1. Admission Conditions:

Please log in to **MyFile** below to review and resolve any admission conditions that may be outlined in your offer letter.
<http://yorku.ca/myfile>

2. Review the Engineering Program Guarantee Deadlines:

<https://lassonde.yorku.ca/discover/engineering-program-guarantee>

3. LE/EECS Course Section Requirements:

All "LE/EECS" courses (except EECS 1028 3.00, 1011, and 1021 in first year) must be completed in Sections E/F/G/H/I/V/X/Y/Z to meet accreditation guidelines.

4. Review degree requirements, rules and other important regulations in the Academic Calendar:

<https://calendars.students.yorku.ca/>

STUDENT WELCOME AND SUPPORT CENTRE (SWSC)

Advisor Email: ask@lassonde.yorku.ca

Admissions Email: ask@lassondeschool.com

Connect with the Academic Advising Team: <https://lassonde.yorku.ca/student-life/connect-with-an-academic-advisor>

Helpful Resources: <https://lassonde.yorku.ca/student-life>

**105 Bergeron Centre for Engineering Excellence, York University
(416) 650-8215**

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)	English (EN)	Indigenous Studies (INDG)	Philosophy (PHIL)
Canadian Studies (CDNS)	Gender & Women's Studies (GWST)	Linguistics (LING, LIN)	Political Science (POLS)
Children, Childhood & Youth Studies (CCY)	History (HIST)	Modes of Reasoning (MODR)	Religious Studies (RLST)
Communications (COMS, CMDS)	Human Rights and Equity Studies (HREQ)	Multicultural and Indigenous Studies (MIST)	Social Science (SOSC)
Culture (CLTR)	Humanities (HUMA)		Sociology (SOCI)
			Writing (WRIT)

Languages:

American Sign Language (ASL)	Modern Greek (GKM)	German (GR)	Korean (KOR)
Arabic (ARB)	English as a Second Language (ESL)	Hebrew (HEB)Hindi (HND)	Latin (LA)
Catalan (CAT)	French as a Second Language (FSL)	Italian (IT)	Persian (PERS)
Chinese (CH)	French (FR, FRAN)	Jamaican Creole (JC)	Portuguese (POR)
Greek (GK)		Japanese (JP)	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:

