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Image: Constraint of the constraint			LE/EECS 1021 3.00	Object Oriented Programming from Sensors to Actuators				
Image: Second Year Computer Organization			LE/EECS 1028 3.00	Discrete Mathematics for Engineers				
Image: Control of the second secon			LE/ENG 1101 4.00	Renaissance Engineer 1: Ethics, Communication and Problem Solving				
Image: Constraint of the second se			LE/ENG 1102 4.00	Renaissance Engineer 2: Engineering Design Principles				
Image: Control of the second secon			SC/MATH 1013 3.00	Applied Calculus I				
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Image: Section of the section of th			SC/PHYS 1801 3.00	Electricity, Magnetism and Optics for Engineers				
At least 3.00 additional credits from SC/PHYS 2020 3.00, SC/PHYS 1070 3.00, SC/PHYS 1070 3.00, HK/GH 1001 3.00, SC/PHYS 1070 3.00, HK/GH 1001 3.00,								
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At least 3.00 additional credits from SC/PHYS 2020 3.00, SC/PHYS 101 3.00, SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, SC/PHYS 102 3.00, HH/GH 1001 3.00, SC/PHYS 102 3.00, SC/PHYS 102 3.00, SC/PHYS 102 3.00, HH/GH 1001 3.00, SC/PHYS 102 3.00, SC/PHYS 102 3.00, SC/PHYS 102 3.00, HH/GH 1001 3.00, HH/GH 10001 3.00, HH/GH 1001 3.00, HH/GH 1001 3.00, HH/GH 1001								
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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, LE/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			55/1115 2211 1.00					
	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 [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							
Notes								
NULES								

BEng, Electrical Engineering

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COURSES CREDITS GRADE										
Third Year Courses										
		LE/EECS 3201 4.00	Digital Logic Design							
		LE/EECS 3452 3.00	Linear Control Systems							
		LE/EECS 3604 4.00	Applied Electromagnetism							
		LE/EECS 3622 4.00	Introduction to Power Systems							
LE/ENG 3000 3.00 Professional Engineering Practice										
LE/ESSE 2210 3.00 Engineering and the Environment										
Electrical Engineering (EE) Technical Electives (normally completed throughout 3rd and 4th year)										
See below for complete list of EE technical electives										
Complementary Studies (6.00 credits)										
		Fourth Year Co	urses							
LE/ENG 4000 6.00 Engineering Project (Capstone)										
Complete at least 37.00 Electrical Engineering	(EE) te	chnical elective credi	ts as follows (normally completed throughout 3rd and 4th year):							
Earned at least 16.00 credits from the below selection of List A Electives:										
Electronics: LE/EECS 3611 4.00, LE/EECS 4612 4.00 Biomedical: LE/EECS 3640 4.00, LE/EECS 3641 4.00 Power: LE/EECS 3603 4.00, LE/EECS 3623 4.00 Communications & Signal Processing: LE/EECS 3601 4.00, LE/EECS 4214 4.00										
Earned at least 22.00 credits overall from List A Electives (complete list below): LE/EECS 3216 3.00, LE/EECS 3601 4.00, LE/EECS 3603 4.00, LE/EECS 3610 4.00, LE/EECS										
LE/FECS 3216 3.00, LE/FECS 3612 4.00, LE/FECS 3630 4.00, LE/FECS 3614 4.00, LE/FECS 3614 4.00, LE/FECS 3614 4.00, LE/FECS 3641 4.00, LE/FECS 3641 4.00, LE/FECS 3641 4.00, LE/FECS 3641 4.00, LE/FECS 4612 4.00, LE/FECS 4614 4.00, LE/FECS 4614 4.00, LE/FECS 4612 4.00, LE/FECS 4614										
Earned at least 15.00 <i>additional</i> credits from List A (above) or List B Electives (below):										
LE/EECS 3213 3.00, LE/EECS 3214 3.00, LE/EECS 3221 3.00, LE/EECS 3405 3.00, LE/EECS 4201 3.00, LE/EECS 4210 3.00, LE/EECS 4210 3.00, LE/EECS 4210 3.00, LE/EECS 4405 3.00, LE/EECS 4413 3.00, LE/EECS 4421 3.00, LE/EECS 4422 3.00, LE/EECS 4452 3.00, LE/EECS 4552 200 200 200 200 200 200 200 200 200										
For a total of at least 37.00 Electrical Engineering technical electives.										
Complementary Studies (6.00 credits)										
TOTAL CGPA (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours degree)										
EECS GPA Prerequisite: Most 2000-, and 4000-level EECS courses require a cumulative GPA or 4.5 or better over all EECS major courses in addition to other course-specific prerequisites. "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to: SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to: SC/MATH 1019 3.00).										
Participation in Co-op is highly recommended, but is not a degree requirement.										
Notes										
			BEng, Electrical Engineering	Page	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)

Languages:

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)

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

1				
	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:

