

(no stream)			Communication Networks			Intelligent Systems			Interactive Systems			Software Development		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	2311	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
EECS3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>
One of EECS3401, 3421, 3461	3	<input type="checkbox"/>	One of 3401, 3421, 3461	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	EECS3xxx or 4xxx	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
EECS3xxx	3	<input type="checkbox"/>	3213 or 3214 3451	3 4	<input type="checkbox"/>	EECS3xxx	3	<input type="checkbox"/>	3461 3431	3 3	<input type="checkbox"/>	3342	3	<input type="checkbox"/>
+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4084	6	<input type="checkbox"/>	4081	6	<input type="checkbox"/>	4082	6	<input type="checkbox"/>	4090	6	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4215	3	<input type="checkbox"/>	4401 or 4402	3	<input type="checkbox"/>	2 of:			4312	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4214	4	<input type="checkbox"/>	4421 or 4422	3	<input type="checkbox"/>	4431, 4441,			4313	3	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>				3 or 4xxx	3	<input type="checkbox"/>	4461, 4471	6	<input type="checkbox"/>			
EECS 3 or 4xxx	3	<input type="checkbox"/>												
EECS total: 62				64			62			62			65	
MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>

3 additional credits in non-EECS science subjects---this is applicable to each column above

Non Science (General Education) courses for the BSc:

* Non Science (Gen Ed) 12

**Lab courses 6

Additional courses to satisfy credit sub-totals for B.Sc. Specialised Honours:

non-CS, non-MATH 30

3xxx level and 4xxx level 42

Additional courses to satisfy 120 credit total for B.Sc. Specialised Honours:

120

+ EECS/MATH4161 3.0 may not be used to satisfy this requirement.

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

(no stream)			Communication Networks			Intelligent Systems			Interactive Systems			Software Development		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	2311	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
EECS3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3215 or 3221	3	<input type="checkbox"/>
One of EECS3401, 3421, 3461	3	<input type="checkbox"/>	One of 3401, 3421, 3461	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	EECS3xxx or 4xxx	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
EECS3xxx	3	<input type="checkbox"/>	3213 or 3214	3	<input type="checkbox"/>	EECS3xxx	3	<input type="checkbox"/>	3461	3	<input type="checkbox"/>	3342	3	<input type="checkbox"/>
			3451	4	<input type="checkbox"/>				3431	3	<input type="checkbox"/>	3421	3	<input type="checkbox"/>
												3461	3	<input type="checkbox"/>
+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>	+EECS41xx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4084	6	<input type="checkbox"/>	4081	6	<input type="checkbox"/>	4082	6	<input type="checkbox"/>	4090	6	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4215	3	<input type="checkbox"/>	4401 or 4402	3	<input type="checkbox"/>	2 of:			4312	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	4214	4	<input type="checkbox"/>	4421 or 4422	3	<input type="checkbox"/>	4431, 4441,			4313	3	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>				3 or 4xxx	3	<input type="checkbox"/>	4461, 4471	6	<input type="checkbox"/>			
EECS 3 or 4xxx	3	<input type="checkbox"/>												
EECS total: 62			64			62			62			65		
MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>

General Education courses for the BA:

24 credits of **General Education** chosen from approved **Humanities, Modes of Reasoning, Natural Science and Social Science** courses at the 1000 and/or 2000-level, including a **minimum of six credits in each of Humanities, Natural Science and Social Science**. A **maximum of 9 credits in each of the four areas** (Humanities, Modes of Reasoning, Natural Science and Social Science) will count towards fulfillment of General Education requirements.

- SOSC
- HUMA
- MODES
- NATS

Electives: Courses outside major and other requirements 18

Additional courses to satisfy credit sub-totals for the BA:

- non-CS, non-MATH 30
- 4000-level 18
- 3000+4000 level 36

Additional courses to satisfy 120 credit total: 120

+ EECS/MATH4161 3.0 may not be used to satisfy this requirement.

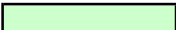


Lassonde School of Engineering

International Dual Degree BSc Specialised Honours

2015-16 Checklist

Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>
German lang/culture	6	<input type="checkbox"/>
Greek lang/culture	6	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>
EECS3221 or 3215	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>
EECS3421	3	<input type="checkbox"/>
The credit count of EECS4xxx must be at least 12.00		
+EECS41xx	3	<input type="checkbox"/>
EECS4088 6.0 (Undergrad Thesis)	6	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>
EECS 3 or 4xxx	3	<input type="checkbox"/>
EECS total:	62	
MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>
MATH1025	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>

Courses typically completed at

	means	York U
	means	BRSU (Fall)
	means	U of C (Winter)

NEW since 2012/13: 3 additional credits in non-EECS science subjects

Non Science (General Education) courses for the BSc:

Non Science	18	<input type="checkbox"/>	Includes the language
**Lab courses	6	<input type="checkbox"/>	

Additional courses to satisfy credit sub-totals for B.Sc. Specialised Honours:

non-CS, non-MATH	30	<input type="checkbox"/>
3xxx level and 4xxx level	42	<input type="checkbox"/>

Additional courses to satisfy 120 credit total for B.Sc. Specialised Honours:

120

+ EECS/MATH4161 3.0 may not be used to satisfy this requirement.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

Lassonde School of Engineering

BSc Degree			BA Degree		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>	EECS1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>	EECS/MATH1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>	EECS1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>	EECS1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>	EECS2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	EECS2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>	EECS2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>	EECS2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>	EECS2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>	EECS3000	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>	EECS3101	3	<input type="checkbox"/>
EECS3221	3	<input type="checkbox"/>	EECS3221	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>	EECS3311	3	<input type="checkbox"/>
EECS3213	3	<input type="checkbox"/>	EECS3213	3	<input type="checkbox"/>
EECS3214	3	<input type="checkbox"/>	EECS3214	3	<input type="checkbox"/>
EECS3421	3	<input type="checkbox"/>	EECS3421	3	<input type="checkbox"/>
EECS3481	3	<input type="checkbox"/>	EECS3481	3	<input type="checkbox"/>
EECS3482	3	<input type="checkbox"/>	EECS3482	3	<input type="checkbox"/>
EECS4480	3	<input type="checkbox"/>	EECS4480	3	<input type="checkbox"/>
EECS4413	3	<input type="checkbox"/>	EECS4413	3	<input type="checkbox"/>
EECS4481	4	<input type="checkbox"/>	EECS4481	4	<input type="checkbox"/>
EECS4482	3	<input type="checkbox"/>	EECS4482	3	<input type="checkbox"/>
EECS total:	66			66	
MATH1025	3	<input type="checkbox"/>	MATH1025	3	<input type="checkbox"/>
MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>
MATH1131	3	<input type="checkbox"/>	MATH1131	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>
*PHIL2075 or STS3500	3	<input type="checkbox"/>	PHIL2075 or STS3500	3	<input type="checkbox"/>
Non Science (General Education) courses for the BSc:			General Education		
*+ Non Science (Gen Ed)	12	<input type="checkbox"/>			
**Lab courses	6	<input type="checkbox"/>	See Honours BA Degree	24	<input type="checkbox"/>
Additional courses to satisfy credit sub-totals:					
non-CS, non-MATH	30	<input type="checkbox"/>	non-CS, non-MATH	30	<input type="checkbox"/>
3000- and 4000-level	42	<input type="checkbox"/>	4000-level	18	<input type="checkbox"/>
Total Credits:	120	<input type="checkbox"/>	120	<input type="checkbox"/>	

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012. If PHIL2075 is taken 9 credits more are required to satisfy the general education requirement.

+ SOSC2312 9.0 or SOSC2340 9.0 are highly recommended.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

LASSONDE – Specialized Honours BA Program in DIGITAL MEDIA
Calendar Copy, 2015-16

The Digital Media Program **Common Core** is as follows:

- [FA/DATT 1000 6.00](#); [FA/DATT 1100 3.00](#); [FA/DATT 2000 3.00](#); [FA/DATT 2010 3.00](#); [FA/DATT 2050 3.00](#); [FA/DATT 2100 3.00](#); [FA/DATT 3700 6.00](#);
- [LE/EECS 1019 3.00](#); [LE/EECS 1030 3.00](#); [LE/EECS 1710 3.00](#); [LE/EECS 1720 3.00](#); [LE/EECS 2041 4.00](#); [LE/EECS 2011 3.00](#); [LE/EECS 4700 6.00](#); [SC/MATH 1025 3.00](#);
- six credits chosen from: [AP/COMN 4305 6.00](#), [AP/COMN 4306 3.00](#), [AP/COMN 4330 6.00](#), [SC/STS 2010 3.00](#), [SC/STS 2110 3.00](#), [SC/STS 2210 3.00](#), [SC/STS 2411 3.00](#), [SC/STS 3170 3.00](#), [SC/STS 3500 3.00](#), [SC/STS 3505 3.00](#), [SC/STS 3561 3.00](#), [SC/STS 3600 3.00](#), [SC/STS 3726 3.00](#), [SC/STS 3730 3.00](#), [SC/STS 3740 3.00](#), [SC/STS 3750 6.00](#), [SC/STS 3755 3.00](#), [SC/STS 3775 3.00](#), [SC/STS 3780 3.00](#), [SC/STS 3790 3.00](#), [SC/STS 3970 3.00](#), [SC/STS 3975 3.00](#), [SC/STS 4230 3.00](#);
- six credits (not DATT) in the SCHOOL OF THE ARTS, MEDIA, PERFORMANCE & DESIGN (AMPD);
- six credits from: [FA/DANC 1900 3.00](#), [FA/FILM 1900 3.00](#), [FA/MUSI 1900 3.00](#), [FA/THEA 1900 3.00](#), [FA/VISA 1900 3.00](#), [FA/YSND 1900 3.00](#); **

All Specialized Honours BA degree candidates **must complete one of the following streams** in digital media:

Specialized Honours BA Program: *Digital Media Development*

- the Program Core;
- [LE/EECS 2031 3.00](#);
- [SC/MATH 2565 3.00](#) or [SC/MATH 1131 3.00](#);
- three credits chosen from: [FA/DATT 3200 3.00](#), [FA/DATT 3930 3.00](#), [FA/DATT 3931 3.00](#), [FA/DATT 3935 3.00](#), [FA/DATT 3938 3.00](#), [FA/DATT 3940 3.00](#), [FA/DATT 3941 3.00](#);
- six credits chosen from: [LE/EECS 3214 3.00](#), [LE/EECS 3421 3.00](#), [LE/EECS 3431 3.00](#), [LE/EECS 3461 3.00](#);
- nine credits chosen from: [LE/EECS 4413 3.00](#), [LE/EECS 4431 3.00*](#), [LE/EECS 4441 3.00](#), [LE/EECS 4443 3.00](#), [LE/EECS 4461 3.00](#), [LE/EECS 4471 3.00*](#), [LE/EECS 4491 3.00*](#)

Specialized Honours BA Program: *Digital Media Arts*

- the Program Core;
- [LE/EECS 3461 3.00](#);
- six credits chosen from: [FA/DATT 3200 3.00](#), [FA/DATT 3930 3.00](#), [FA/DATT 3931 3.00](#), [FA/DATT 3935 3.00](#), [FA/DATT 3938 3.00](#), [FA/DATT 3940 3.00](#), [FA/DATT 3941 3.00](#);
- three credits chosen from: [LE/EECS 4413 3.00](#), [LE/EECS 4431 3.00*](#), [LE/EECS 4441 3.00](#), [LE/EECS 4443 3.00](#), [LE/EECS 4461 3.00](#), [LE/EECS 4471 3.00*](#), [LE/EECS 4491 3.00*](#);
- six credits chosen from: [FA/DATT 4930 3.00](#), [FA/DATT 4931 3.00](#), [FA/DATT 4932 3.00](#), [FA/DATT 4935 3.00](#), [FA/DATT 4940 3.00](#), [FA/DATT 4950 3.00](#);

Notes:

1. Six credits in COMN/STS can be used to satisfy both part of the general education requirements and the six credits in COMN/STS requirement.
2. Upper-level credits: a minimum of 36 credits must be at the 3000 or 4000 level, at least 18 credits of which must be at the 4000 level.
3. Additional elective credits must be completed, as required, for an overall total of at least 120 credits. Some students may be required to take more than 120 credits.
4. * These courses require prerequisites that are not part of the program requirements.
5. ** These six credits can be used to satisfy the humanities area general education requirement in both AMPD and LE.
6. Effective FW2015, EECS2041 **4.00** and EECS1030 3.00 have the substitutes EECS1012 **3.00** and EECS2030 3.00 respectively.

Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>
EECS/MATH 1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>
EECS3221 or 3215	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>
One of EECS3401, 3421, 3461	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS total:	53	
MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>

6 additional credits in non-EECS science subjects---this is applicable to each column above

Non Science (General Education) courses for the BSc:

* Non Science (Gen Ed) 12
 **Lab courses 6

Additional courses to satisfy credit sub-totals for B.Sc. Honours:

non-CS, non-MATH 30
 3xxx level and 4xxx level 42

Additional courses to satisfy 120 credit total for B.Sc. Honours:

120

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

NOTE. A linear algebra course such as MATH1025 3.00 is highly recommended.

Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>
EECS/MATH		
1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>
EECS3221 or		<input type="checkbox"/>
3215	3	
EECS3311	3	<input type="checkbox"/>
One of		
EECS3401,	3	<input type="checkbox"/>
3421, 3461		
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>
EECS total:	53	
MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>

24 credits of **General Education** chosen from approved **Humanities, Modes of Reasoning, Natural Science and Social Science** courses at the 1000 and/or 2000-level, including a **minimum of six credits in each of Humanities, Natural Science and Social Science**. A **maximum of 9 credits in each of the four areas** (Humanities, Modes of Reasoning, Natural Science and Social Science) will count towards fulfillment of General Education requirements.

- SOSC
- HUMA
- MODES
- NATS

Electives: Courses outside major and other requirements 18

Additional Requirements for the Honours BA: non-CS, non-MATH 30

4000-level 18

3000+4000 level 36

Additional courses to satisfy 120 credit tot 120

NOTE. A linear algebra course such as MATH1025 3.00 is highly recommended.

Lassonde School of Engineering

<i>iBSc Degree</i>			<i>iBA Degree</i>		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>	EECS1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>	EECS/MATH1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>	EECS1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>	EECS1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>	EECS2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	EECS2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>	EECS2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>	EECS2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>	EECS2031	3	<input type="checkbox"/>
EECS3000	3	<input type="checkbox"/>	EECS3000	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>	EECS3101	3	<input type="checkbox"/>
EECS3221 or 3215	3	<input type="checkbox"/>	EECS3221 or 3215	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>	EECS3311	3	<input type="checkbox"/>
One of EECS3401, 3421, 3461	3	<input type="checkbox"/>	One of EECS3401, 3421, 3461	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	EECS4xxx	3	<input type="checkbox"/>
EECS4xxx	3	<input type="checkbox"/>	EECS4xxx	3	<input type="checkbox"/>
EECS total:	53			53	

3 additional credits in non-EECS science subjects.

MATH1025	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>
MATH1090	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>			
International Component			International Component		
language courses	12 to 18	<input type="checkbox"/>	language courses	18	<input type="checkbox"/>
international studies	18 to 12	<input type="checkbox"/>	international studies	12	<input type="checkbox"/>
exchange term			exchange term		
* Non Science (Gen Ed)	12	<input type="checkbox"/>	General Education		
**Lab courses	6	<input type="checkbox"/>	24 credits; See Honours BA.	24	<input type="checkbox"/>

Credit Totals (120), Upper Level and Other Requirements: See the BA or BSc Honours degrees

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

Lassonde School of Engineering

EECS Minor (BSc, BA). Must be paired with an honours major for a total of 120 credits

2015-16 Checklist

B.Sc. Degree			B.A. Degree		
Course	Cr.		Course	Cr.	
EECS/MATH 1019	3	<input type="checkbox"/>	EECS/MATH 1019	3	<input type="checkbox"/>
EECS1710	3	<input type="checkbox"/>	EECS1710	3	<input type="checkbox"/>
or			or		
EECS1012			EECS1012		
EECS1720	3	<input type="checkbox"/>	EECS1720	3	<input type="checkbox"/>
or			or		
EECS1022			EECS1022		
EECS2030	3	<input type="checkbox"/>	EECS2030	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	EECS2011	3	<input type="checkbox"/>
At least 15 EECS credits with 2nd digit not 5; nine credits must be EECS3xxx or EECS4xxx	15	<input type="checkbox"/>	At least 15 EECS credits with 2nd digit not 5; nine credits must be EECS3xxx or EECS4xxx	15	<input type="checkbox"/>
EECS total:	30	<input type="checkbox"/>		30	<input type="checkbox"/>
Non Science *	12	See Honours BSc checklist	General Education	24	See Honours BA checklist
**Lab courses	6	See Honours BSc checklist			
Additional courses to satisfy credit sub-totals for a B.Sc. Honours:			Additional courses to satisfy credit sub-totals for a BA Honours:		

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

Note: SC/EECS 1020 3.00 can be substituted for the pair SC/EECS1710 3.00 and SC/EECS1720 3.00 toward satisfying the minor requirements as long as the credit count for the minor remains 30 minimum

Lassonde School of Engineering

B.Sc. Degree			B.A. Degree		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
EECS1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
EECS/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
EECS1012	3	<input type="checkbox"/>	1012	3	<input type="checkbox"/>
EECS1022	3	<input type="checkbox"/>	1022	3	<input type="checkbox"/>
EECS2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
EECS2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
EECS2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
EECS2030	3	<input type="checkbox"/>	2030	3	<input type="checkbox"/>
EECS2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
EECS3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
EECS3221 or 3215	3	<input type="checkbox"/>	3221 or 3215	3	<input type="checkbox"/>
EECS3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
One of EECS3401, 3421, 3461	3	<input type="checkbox"/>	One of 3401, 3421, 3461	3	<input type="checkbox"/>
EECS3xxx	3	<input type="checkbox"/>	3xxx	3	<input type="checkbox"/>
EECS3xxx	3	<input type="checkbox"/>	3xxx	3	<input type="checkbox"/>
EECS total:	44		EECS total:	44	
9 additional credits in non-EECS science subject; 3 of these must be at the 2000 level or above					
MATH1090	3	<input type="checkbox"/>	MATH1090	3	<input type="checkbox"/>
MATH1300	3	<input type="checkbox"/>	MATH1300	3	<input type="checkbox"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
Non Science (General Education) courses for the BSc:			General Education		
* Non Science (Gen Ed)	12	<input type="checkbox"/>	24 credits of General Education chosen from approved Humanities, Modes of Reasoning, Natural Science and Social Science courses at the 1000 and/or 2000-level, including a minimum of six credits in each of Humanities, Natural Science and Social Science . A maximum of 9 credits in each of the four areas (Humanities, Modes of Reasoning, Natural Science and Social Science) will count towards fulfillment of General Education requirements.		
**Lab courses	6	<input type="checkbox"/>	SOSC <input type="checkbox"/> HUMA <input type="checkbox"/> MODES <input type="checkbox"/> NATS <input type="checkbox"/>		
			Electives (outside EECS and not otherwise required) 18 <input type="checkbox"/>		
Total Credits:	90	<input type="checkbox"/>	Total Credits:	90	<input type="checkbox"/>

* Obtain a list of acceptable Lassonde Non Science courses from the Advising Centre in Room LAS 1012.

** The Lab requirement must be fulfilled by taking 6 credits from the following: BIOL 1000 3.00, BIOL 1001 3.00 (or BIOL 1010 6.00), CHEM 1000 3.00, CHEM 1001 3.00, PHYS 1410 6.00 or PHYS 1420 6.00 or PHYS 1010 6.00

**DEGREE CHECKLIST
2015-2016**

**BACHELOR OF ENGINEERING
COMPUTER ENGINEERING**

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: <http://calendars.registrar.yorku.ca/>

		COURSES
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
	<input type="checkbox"/>	LE/EECS 1021 3.00 Object Oriented Programming from Sensors to Actuators
	<input type="checkbox"/>	LE/EECS 1028 3.00 Discrete Mathematics for Engineers
	<input type="checkbox"/>	LE/ENG 1101 4.00 Renaissance Engineering 1: Ethics, Communication and Problem Solving
	<input type="checkbox"/>	LE/ENG 1102 4.00 Renaissance Engineering 2: Engineering Design Principles
	<input type="checkbox"/>	SC/MATH 1013 3.00 Applied Calculus I
	<input type="checkbox"/>	SC/MATH 1014 3.00 Applied Calculus II
	<input type="checkbox"/>	SC/MATH 1025 3.00 Applied Linear Algebra
	<input type="checkbox"/>	SC/PHYS 1800 3.00 Engineering Mechanics
	<input type="checkbox"/>	SC/PHYS 1801 3.00 Electricity, Magnetism and Optics for Engineers
Second Year Courses		
	<input type="checkbox"/>	SC/MATH 1090 3.00 Introduction to Logic for Computer Science
	<input type="checkbox"/>	LE/EECS 2011 3.00 Fundamentals of Data Structures
	<input type="checkbox"/>	LE/EECS 2021 4.00 Computer Organization
	<input type="checkbox"/>	LE/EECS 2030 3.00 Advanced Object-Oriented Programming
	<input type="checkbox"/>	LE/EECS 2031 3.00 Software Tools
	<input type="checkbox"/>	LE/EECS 2200 3.00 Electrical Circuits
	<input type="checkbox"/>	LE/EECS 2210 3.00 Electronic Circuits and Devices
	<input type="checkbox"/>	LE/ENG 2001 3.00 Engineering Projects: Management, Economics & Safety
	<input type="checkbox"/>	LE/ENG 2003 3.00 Effective Communication for Engineers
	<input type="checkbox"/>	SC/MATH 2015 3.00 Applied Multivariate and Vector Calculus
	<input type="checkbox"/>	SC/MATH 2930 3.00 Introduction to Probability and Statistics
	<input type="checkbox"/>	SC/PHYS 2020 3.00 Electricity and Magnetism
	<input type="checkbox"/>	SC/PHYS 2211 1.00 Experimental Electromagnetism
BEng, Computer Engineering		

	COURSES		
Third Year Courses			
	<input type="checkbox"/>	LE/ENG 3000 3.00	Professional Engineering Practice
	<input type="checkbox"/>	LE/EECS 3101 3.00	Design and Analysis of Algorithms
	<input type="checkbox"/>	LE/EECS 3201 4.00	Digital Logic Design
	<input type="checkbox"/>	LE/EECS 3213 3.00	Communication Networks
	<input type="checkbox"/>	LE/EECS 3215 4.00	Embedded Systems
	<input type="checkbox"/>	LE/EECS 3221 3.00	Operating System Fundamentals
	<input type="checkbox"/>	LE/EECS 3311 3.00	Software Design
	<input type="checkbox"/>	LE/EECS 3451 4.00	Signals and Systems
	<input type="checkbox"/>	ES/ENVS 2150 3.00	Environment, Technology and Sustainable Society
At least 6 additional credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 (or SC/BIOL 1010 6.00), SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, LE/EATS 1011 3.00, SC/PHYS 1070 3.00, SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, SC/PHYS 2060 3.00	<input type="checkbox"/>		
	<input type="checkbox"/>		
3 additional credits from EECS courses at 3000 or 4000 level	<input type="checkbox"/>		
Fourth Year Courses			
	<input type="checkbox"/>	LE/ENG 4000 6.00	Engineering Project
	<input type="checkbox"/>	LE/EECS 4201 3.00	Computer Architecture
	<input type="checkbox"/>	LE/EECS 4214 4.00	Digital Communications
	<input type="checkbox"/>	LE/EECS 4312 3.00	Software Engineering Requirements
Complementary Studies (12 credits)	<input type="checkbox"/>		
	<input type="checkbox"/>		
12 credits from LE/EECS 3214 3.00, LE/EECS 3431 3.00, LE/EECS 4210 3.00 ² , LE/EECS 4211 3.00, LE/EECS 4215 3.00 ² , LE/EECS 4313 3.00, LE/EECS 4352 3.00 ² , LE/EECS 4404 3.00, LE/EECS 4421 3.00 ² , LE/EECS 4422 3.00 ² , LE/EECS 4431 3.00 ² , LE/EECS 4441 3.00, LE/EECS 4452 3.00 ² , LE/EECS 4471 3.00 ² , LE/ENG 3320 3.00, LE/ENG 4550 3.00 ² These 12 credits must incl. at least 2 courses with significant lab experience.	<input type="checkbox"/>		
	<input type="checkbox"/>		
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)			
¹ General prerequisites for EECS courses: For EECS 2xxx courses: CGPA of 4.5 or better on completed major EECS courses For EECS 3xxx & 4xxx courses: EECS 2030 or 1030 3.00 & CGPA of 4.5 or better on completed major EECS courses			
A Co-op or Internship option is highly recommended for all engineering students, but is not a degree requirement.			
BEng, Computer Engineering			

**DEGREE CHECKLIST
2015-2016**

**BACHELOR OF ENGINEERING
ELECTRICAL ENGINEERING**

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: <http://calendars.registrar.yorku.ca/>

COURSES

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

Second Year Courses

<input type="checkbox"/>	LE/EECS 2021 4.00	Computer Organization
<input type="checkbox"/>	LE/EECS 2030 3.00	Advanced Object-Oriented Programming
<input type="checkbox"/>	LE/EECS 2031 3.00	Software Tools
<input type="checkbox"/>	LE/EECS 2200 3.00	Electrical Circuits
<input type="checkbox"/>	LE/EECS 2210 3.00	Electronic Circuits and Devices
<input type="checkbox"/>	LE/EECS 2602 4.00	Signals and Systems in Continuous Time
<input type="checkbox"/>	LE/ENG 2001 3.00	Engineering Projects: Management, Economics & Safety
<input type="checkbox"/>	LE/ENG 2003 3.00	Effective Communication for Engineers
<input type="checkbox"/>	SC/MATH 2015 3.00	Applied Multivariate and Vector Calculus
<input type="checkbox"/>	SC/MATH 2930 3.00	Introduction to Probability and Statistics
<input type="checkbox"/>	SC/PHYS 2020 3.00	Electricity and Magnetics
<input type="checkbox"/>	SC/PHYS 2211 1.00	Experimental Electromagnetism
<p>3 credits from SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, LE/ESSE 1011 3.00, SC/PHYS 1070 3.00, SC/PHYS 1470 3.00, SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, OR SC/PHYS 2060 3.00</p>		<input type="checkbox"/>

BEng, Electrical Engineering

	COURSES	
Third Year Courses		
	<input type="checkbox"/>	LE/EECS 3201 4.00 Digital Logic Design
	<input type="checkbox"/>	LE/EECS 3215 4.00 Embedded Systems
	<input type="checkbox"/>	LE/EECS 3602 4.00 Systems and Random Process in Discrete Time
	<input type="checkbox"/>	LE/EECS 3603 4.00 Introduction to Power Systems
	<input type="checkbox"/>	LE/EECS 3604 4.00 Electromagnetic Theory and Wave Propagation
	<input type="checkbox"/>	LE/ENG 3000 3.00 Professional Engineering Practice
	<input type="checkbox"/>	ES/ENVS 2150 3.00 Environment, Technology and Sustainable Society
Complementary Studies (6 credits)	<input type="checkbox"/>	
	<input type="checkbox"/>	
Additional Third and Fourth Year Courses		
	<input type="checkbox"/>	LE/ENG 4000 6.00 Engineering Project
	<input type="checkbox"/>	LE/ENG 4550 3.00 Control Systems
Complementary Studies (6 credits)	<input type="checkbox"/>	
	<input type="checkbox"/>	
At Least 28 Additional Credits of EE Technical Electives from Two lists, a) and b) as follows:		
List a) At least 16 credits from a list of Major Courses:	<input type="checkbox"/>	LE/EECS 3611 4.00 Analog Integrated Circuit Design
	<input type="checkbox"/>	LE/EECS 4611 4.00 Advanced Analog Integrated Circuit Design
	<input type="checkbox"/>	LE/EECS 4612 4.00 Digital Very Large Scale Integration
	<input type="checkbox"/>	LE/EECS 4613 4.00 Power Electronics
	<input type="checkbox"/>	LE/EECS 4614 4.00 Electro-Optics
	<input type="checkbox"/>	LE/EECS4621 4.00 Advanced Power Electronic Applications
	<input type="checkbox"/>	LE/EECS 4622 4.00 Introduction to Energy Systems
	<input type="checkbox"/>	LE/EECS 4623 4.00 Alternative Energy Systems
	<input type="checkbox"/>	LE/EECS 4214 4.00 Digital Communications
	<input type="checkbox"/>	LE/EECS 4631 4.00 Statistical Signal Processing
	<input type="checkbox"/>	LE/EECS 4632 4.00
	<input type="checkbox"/>	LE/EECS 4641 4.00 Introduction to Medical Devices and Biological Instruments
	<input type="checkbox"/>	LE/EECS 4642 4.00 Medical Imaging Systems
	<input type="checkbox"/>	LE/EECS 4643 4.00 Biomedical Signal Analysis
	<input type="checkbox"/>	LE/EECS 4644 4.00 Computer-Aided Interventions
	BEng, Electrical Engineering	

List b) Additional credits from a list of general EECS courses to the right for a total of at least 28 credits:	<input type="checkbox"/> LE/EECS 3213 3.00	Communication Networks
	<input type="checkbox"/> LE/EECS 3214 3.00	Computer Network Protocols and Applications
	<input type="checkbox"/> LE/EECS 3221 3.00	Operating System Fundamentals
	<input type="checkbox"/> LE/EECS 4201 3.00	Computer Architecture
	<input type="checkbox"/> LE/EECS 4210 3.00	Architecture and Hardware for Digital Signal Processing
	<input type="checkbox"/> LE/EECS 4215 3.00	Mobile Communications
	<input type="checkbox"/> LE/EECS 4221 3.00	Operating System Design
	<input type="checkbox"/> LE/EECS 4352 3.00	Real-Time Systems Practice
	<input type="checkbox"/> LE/EECS 4403 3.00	Soft Computing
	<input type="checkbox"/> LE/EECS 4404 3.00	Introduction to Machine Learning and Pattern Recognition
	<input type="checkbox"/> LE/EECS 4413 3.00	Building E-Commerce Systems
	<input type="checkbox"/> LE/EECS 4421 3.00	Introduction to Robotics
	<input type="checkbox"/> LE/EECS 4422 3.00	Computer Vision
	<input type="checkbox"/> LE/EECS 4452 3.00	Digital Signal Processing: Theory and Applications
	<input type="checkbox"/> LE/EECS 4471 3.00	Introduction to Virtual Reality
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)		
¹ General prerequisites for EECS courses: For EECS 2xxx courses: CGPA of 4.5 or better on completed major EECS courses For EECS 3xxx & 4xxx courses: EECS 2030 or 1030 3.00 & CGPA of 4.5 or better on completed major EECS courses		
A Co-op or Internship option is highly recommended for all engineering students, but is not a degree requirement.		
BEng, Electrical Engineering		

**DEGREE CHECKLIST
2015-2016**

**BACHELOR OF ENGINEERING
SOFTWARE ENGINEERING**

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: <http://calendars.registrar.yorku.ca/>

		COURSES
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
	<input type="checkbox"/>	LE/EECS 1021 3.00 Object Oriented Programming from Sensors to Actuators
	<input type="checkbox"/>	LE/EECS 1028 3.00 Discrete Mathematics for Engineers
	<input type="checkbox"/>	LE/ENG 1101 4.00 Renaissance Engineering 1: Ethics, Communication and Problem Solving
	<input type="checkbox"/>	LE/ENG 1102 4.00 Renaissance Engineering 2: Engineering Design Principles
	<input type="checkbox"/>	SC/MATH 1013 3.00 Applied Calculus I
	<input type="checkbox"/>	SC/MATH 1014 3.00 Applied Calculus II
	<input type="checkbox"/>	SC/MATH 1025 3.00 Applied Linear Algebra
	<input type="checkbox"/>	SC/PHYS 1800 3.00 Engineering Mechanics
	<input type="checkbox"/>	SC/PHYS 1801 3.00 Electricity, Magnetism and Optics for Engineers
Second Year Courses		
	<input type="checkbox"/>	SC/MATH 1090 3.00 Introduction to Logic for Computer Science
	<input type="checkbox"/>	LE/EECS 2011 3.00 Fundamentals of Data Structures
	<input type="checkbox"/>	LE/EECS 2021 4.00 Computer Organization
	<input type="checkbox"/>	LE/EECS 2030 3.00 Advanced Object-Oriented Programming
	<input type="checkbox"/>	LE/EECS 2031 3.00 Software Tools
	<input type="checkbox"/>	LE/EECS 2200 3.00 Electrical Circuits
	<input type="checkbox"/>	LE/EECS 2311 3.00 Software Development Project
	<input type="checkbox"/>	LE/ENG 2001 3.00 Engineering Projects: Management, Economics & Safety
	<input type="checkbox"/>	LE/ENG 2003 3.00 Effective Communication for Engineers
	<input type="checkbox"/>	SC/MATH 2015 3.00 Applied Multivariate and Vector Calculus
	<input type="checkbox"/>	SC/MATH 2930 3.00 Introduction to Probability and Statistics
	<input type="checkbox"/>	SC/PHYS 2020 3.00 Electricity and Magnetics
	<input type="checkbox"/>	SC/PHYS 2211 1.00 Experimental Electromagnetism
BEng, Software Engineering		

		COURSES	
Third Year Courses			
	<input type="checkbox"/>	LE/EECS 3101 3.00	Design and Analysis of Algorithms
	<input type="checkbox"/>	LE/EECS 3201 4.00	Digital Logic Design
	<input type="checkbox"/>	LE/EECS 3215 4.00	Embedded Systems
	<input type="checkbox"/>	LE/EECS 3221 3.00	Operating System Fundamentals
	<input type="checkbox"/>	LE/EECS 3311 3.00	Software Design
	<input type="checkbox"/>	LE/EECS 3342 3.00	System Specification and Refinement
	<input type="checkbox"/>	LE/ENG 3000 3.00	Professional Engineering Practice
	<input type="checkbox"/>	ES/ENVS 2150 3.00	Environment, Technology and Sustainable Society
Three credits chosen from: SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, LE/EATS 1011 3.00, SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, or SC/PHYS 2060 3.00	<input type="checkbox"/>		
Complementary Studies (9 credits)	<input type="checkbox"/>		
	<input type="checkbox"/>		
Fourth Year Courses			
	<input type="checkbox"/>	LE/EECS 4312 3.00	Software Engineering Requirements
	<input type="checkbox"/>	LE/EECS 4313 3.00	Software Engineering Testing
	<input type="checkbox"/>	LE/EECS 4314 3.00	Advanced Software Engineering
	<input type="checkbox"/>	LE/EECS 4315 3.00	Mission-Critical Systems
	<input type="checkbox"/>	LE/EECS 4413 3.00	Building E-Commerce Systems
	<input type="checkbox"/>	LE/ENG 4000 6.00	Engineering Project
Complementary Studies (3 credits)	<input type="checkbox"/>		
	<input type="checkbox"/>		
Choose ONE of the following options (16 credits):			
General Option:	<input type="checkbox"/>	LE/EECS 3451 4.00	Signals and Systems
	<input type="checkbox"/>	LE/ENG 4550 3.00	Introduction to Control Systems
	<input type="checkbox"/>	Plus 9 additional credits from computer science courses at the 3000 and 4000 level. At least 6 of these credits must be from the following list: LE/EECS 3214 3.0, LE/EECS 3421 3.0, LE/EECS 3461 3.0, LE/EECS 3481 3.0, LE/EECS 3482 3.0, LE/EECS 4214 3.0, LE/EECS 4215 3.0, LE/EECS 4411 3.0, LE/EECS 4412 3.0, LE/EECS 4441 3.0, LE/EECS 4481 4.0, LE/EECS 4482 3.0, LE/EECS 4404 3.0	
Software Security Option:	<input type="checkbox"/>	LE/EECS 3214 3.00	Computer Network Protocols and Applications
	<input type="checkbox"/>	LE/EECS 3481 3.00	Applied Cryptography
	<input type="checkbox"/>	LE/EECS 3482 3.00	Introduction to Computer Security
	<input type="checkbox"/>	LE/EECS 4481 4.00	Computer Security Laboratory
	<input type="checkbox"/>	LE/EECS 4482 3.00	Computer Security Management: Assessment and Forensics
TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program)			
¹ General prerequisites for EECS courses: For EECS 2xxx courses: CGPA of 4.5 or better on completed major EECS courses For EECS 3xxx & 4xxx courses: EECS 2030 or 1030 3.00 & CGPA of 4.5 or better on completed major EECS courses			
A Co-op or Internship option is highly recommended for all engineering students, but is not a degree requirement.			