

(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"/>
CSE1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
CSE/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"/>
CSE1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
CSE3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>
CSE3xxx	3	<input type="checkbox"/>	3213 or 3214	3	<input type="checkbox"/>	3402	3	<input type="checkbox"/>	3461	3	<input type="checkbox"/>	3341	3	<input type="checkbox"/>
			3451	4	<input type="checkbox"/>				3431	3	<input type="checkbox"/>	3421	3	<input type="checkbox"/>
												3461	3	<input type="checkbox"/>
+CSE41xx	3	<input type="checkbox"/>	+CSE41xx	3	<input type="checkbox"/>	+CSE41xx	3	<input type="checkbox"/>	+CSE41xx	3	<input type="checkbox"/>	+CSE41xx	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4084	6	<input type="checkbox"/>	4081	6	<input type="checkbox"/>	4082	6	<input type="checkbox"/>	4090	6	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4215	3	<input type="checkbox"/>	4401 or 4402	3	<input type="checkbox"/>	2 of:			4312	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4214	4	<input type="checkbox"/>	4421 or 4422	3	<input type="checkbox"/>	4431, 4441,			4313	3	<input type="checkbox"/>
CSE 3 or 4xxx	3	<input type="checkbox"/>				3 or 4xxx	3	<input type="checkbox"/>	4461, 4471	6	<input type="checkbox"/>			
CSE 3 or 4xxx	3	<input type="checkbox"/>												
CSE total: 59				61			59			59			62	
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-CSE science subjects---this is applicable to each column above

General Education courses for the BSc:

*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

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

*Please obtain a list of acceptable General Education courses from the Science Academic Centre in room 355 Lumbers Building.

** 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"/>
CSE1001	1 <input type="checkbox"/>	1001	1 <input type="checkbox"/>	1001	1 <input type="checkbox"/>	1001	1 <input type="checkbox"/>	1001	1 <input type="checkbox"/>
CSE/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"/>
CSE1020	3 <input type="checkbox"/>	1020	3 <input type="checkbox"/>	1020	3 <input type="checkbox"/>	1020	3 <input type="checkbox"/>	1020	3 <input type="checkbox"/>
CSE1030	3 <input type="checkbox"/>	1030	3 <input type="checkbox"/>	1030	3 <input type="checkbox"/>	1030	3 <input type="checkbox"/>	1030	3 <input type="checkbox"/>
CSE2001	3 <input type="checkbox"/>	2001	3 <input type="checkbox"/>	2001	3 <input type="checkbox"/>	2001	3 <input type="checkbox"/>	2001	3 <input type="checkbox"/>
CSE2011	3 <input type="checkbox"/>	2011	3 <input type="checkbox"/>	2011	3 <input type="checkbox"/>	2011	3 <input type="checkbox"/>	2011	3 <input type="checkbox"/>
CSE2021	4 <input type="checkbox"/>	2021	4 <input type="checkbox"/>	2021	4 <input type="checkbox"/>	2021	4 <input type="checkbox"/>	2021	4 <input type="checkbox"/>
CSE2031	3 <input type="checkbox"/>	2031	3 <input type="checkbox"/>	2031	3 <input type="checkbox"/>	2031	3 <input type="checkbox"/>	2031	3 <input type="checkbox"/>
CSE3000	3 <input type="checkbox"/>	3000	3 <input type="checkbox"/>	3000	3 <input type="checkbox"/>	3000	3 <input type="checkbox"/>	3000	3 <input type="checkbox"/>
CSE3101	3 <input type="checkbox"/>	3101	3 <input type="checkbox"/>	3101	3 <input type="checkbox"/>	3101	3 <input type="checkbox"/>	3101	3 <input type="checkbox"/>
CSE3221	3 <input type="checkbox"/>	3221	3 <input type="checkbox"/>	3221	3 <input type="checkbox"/>	3221	3 <input type="checkbox"/>	3221	3 <input type="checkbox"/>
CSE3311	3 <input type="checkbox"/>	3311	3 <input type="checkbox"/>	3311	3 <input type="checkbox"/>	3311	3 <input type="checkbox"/>	3311	3 <input type="checkbox"/>
CSE3401	3 <input type="checkbox"/>	3401	3 <input type="checkbox"/>	3401	3 <input type="checkbox"/>	3401	3 <input type="checkbox"/>	3401	3 <input type="checkbox"/>
CSE3xxx	3 <input type="checkbox"/>	3213 or 3214	3 <input type="checkbox"/>	3402	3 <input type="checkbox"/>	3461	3 <input type="checkbox"/>	3341	3 <input type="checkbox"/>
		3451	4 <input type="checkbox"/>			3431	3 <input type="checkbox"/>	3421	3 <input type="checkbox"/>
								3461	3 <input type="checkbox"/>
+CSE41xx	3 <input type="checkbox"/>	+CSE41xx	3 <input type="checkbox"/>	+CSE41xx	3 <input type="checkbox"/>	+CSE41xx	3 <input type="checkbox"/>	+CSE41xx	3 <input type="checkbox"/>
CSE4xxx	3 <input type="checkbox"/>	4084	6 <input type="checkbox"/>	4081	6 <input type="checkbox"/>	4082	6 <input type="checkbox"/>	4090	6 <input type="checkbox"/>
CSE4xxx	3 <input type="checkbox"/>	4215	3 <input type="checkbox"/>	4401 or 4402	3 <input type="checkbox"/>	2 of:		4312	3 <input type="checkbox"/>
CSE4xxx	3 <input type="checkbox"/>	4214	4 <input type="checkbox"/>	4421 or 4422	3 <input type="checkbox"/>	4431, 4441,		4313	3 <input type="checkbox"/>
CSE 3 or 4xxx	3 <input type="checkbox"/>			3 or 4xxx	3 <input type="checkbox"/>	4461, 4471	6 <input type="checkbox"/>		
CSE 3 or 4xxx	3 <input type="checkbox"/>								
CSE total: 59		61		59		59		62	
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




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

International Dual Degree BSc Specialised Honours

2012-13 Checklist

Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>
German lang/culture	6	<input type="checkbox"/>
Greek lang/culture	6	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>
CSE3401	3	<input type="checkbox"/>
CSE3421	3	<input type="checkbox"/>
+CSE41xx	3	<input type="checkbox"/>
CSE4088 6.0 (Undergrad Thesis)	6	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>
CSE 3 or 4xxx	3	<input type="checkbox"/>
CSE 3 or 4xxx	3	<input type="checkbox"/>
CSE total:	59	
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 in 2012/13: 3 additional credits in non-CSE science subjects

General Education courses for the BSc:

Gen Ed	18	<input type="checkbox"/>	Includes the language courses
**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

+ CSE/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

Faculty of Science & Engineering

BSc Degree			BA Degree		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
CSE2041	4	<input type="checkbox"/>	2041	4	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
CSE3213	3	<input type="checkbox"/>	3213	3	<input type="checkbox"/>
CSE3214	3	<input type="checkbox"/>	3214	3	<input type="checkbox"/>
CSE3421	3	<input type="checkbox"/>	3421	3	<input type="checkbox"/>
CSE3481	3	<input type="checkbox"/>	3481	3	<input type="checkbox"/>
CSE3482	3	<input type="checkbox"/>	3482	3	<input type="checkbox"/>
CSE4480	3	<input type="checkbox"/>	4480	3	<input type="checkbox"/>
CSE4413	3	<input type="checkbox"/>	4413	3	<input type="checkbox"/>
CSE4481	4	<input type="checkbox"/>	4481	4	<input type="checkbox"/>
CSE4482	3	<input type="checkbox"/>	4482	3	<input type="checkbox"/>
CSE total:	67			67	
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"/>
General Education			General Education		
*+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:			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"/>	Total Credits:	120	<input type="checkbox"/>

Red means "New in 2012/13"

* Please obtain a list of acceptable FSE General Education courses from Science Academic Services, rm. 355 Lumbers Building. 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

**Specialized Honours BA in Digital Media
Suggested Degree Progression and Checklist §
2012-2013**

	F A L L T E R M	W I N T E R T E R M	
Year 1	CSE 1710 3.0	CSE 1720 3.0	6.0
	3.0 cr from Yr1-FFA Group	3.0 cr from Yr1-FFA Group	6.0
	FACS 2930 6.0		6.0
	9.0 cr from Yr1-COMN Group		9.0
	Fall OR Winter Term: MATH 1190 3.0 or 3.0 cr Elective if MHF4U completed		3.0
			30.0
Year 2	CSE 1030 3.0	CSE 2011 3.0	6.0
	CSE/MATH 1019 3.0	CSE 2031 3.0	6.0
	FACS 2935 3.0	FACS 2936 3.0	6.0
	MATH 1131 3.0 OR MATH 2565 3.0	MATH 1025 3.0	6.0
	3.0 cr Elective	3.0 cr from Yr2/3-FFA Group	6.0
			30.0
Year 3	3.0 cr from Yr3-CSE Group ◊	3.0 cr from Yr3-CSE Group	6.0
	3.0 cr from Yr2/3-FFA Group ◊	3.0 cr from Yr2/3-FFA Group	6.0
	FACS 3936 3.0 ◊	3.0 cr from Yr3-CSE Group	6.0
	FSE students: 9.0 cr toward Gen Ed requirements †; FFA students 9.0 cr Elective (VISA 3054 6.0 recommended)		9.0
	Fall OR Winter Term: 3.0 cr Elective		3.0
			30.0
Year 4	3.0 cr from Yr4-CSE Group	3.0 cr from Yr4-CSE Group	6.0
	3.0 cr from Yr4-FFA Group	3.0 cr from Yr4-FFA Group	6.0
	6.0 cr from Yr3/4-COMN Group		6.0
	CSE 4700 6.0		6.0
	6.0 cr toward Gen Ed requirements †		6.0
			30.0

120.0

† Faculty-specific General Education requirements

FSE students:

- 6.0 credits in NATS and 9.0 credits in HUMA.
- Alternatively, 6.0 credits in each of NATS, HUMA, and MODR. (This avenue requires 3 additional credits).

FFA students:

- at least 6.0 credits chosen from: NATS, BIOL, CHEM, SC/STS, EATS, PHAS, ENVS1500 6.0.

§ Pre-requisites not shown here; please check course descriptions and/or see an academic advisor.

‡ Additional specialized planning required for these courses; please see an academic advisor.

◊ Indicates courses that are required to be eligible for the Technology Internship Program (TIP). A cumulative GPA of 6.0 (B) or better in the program's core courses is also required. Students must have at least 18 credits remaining in their degree. See a TIP advisor for further info.

6.0 credits chosen from Yr1-FFA Group:
DANC 1900 3.0, FILM 1900 3.0, MUSI 1900 3.0, THEA 1900 3.0,
VISA 1900 3.0, YSDN 1900 3.0, FACS 1900 6.0 (not avail after 2011-12)

9.0 credits chosen from Yr1-COMN Group:
COMN 1310 9.0
SOSC 1731 9.0

6.0 credits chosen from Yr2/3-FFA Group:
FACS 2500 3.0, FACS 3930 3.0, FACS 3931 3.0,
FACS 3933 3.0, FACS 3935 3.0, FACS 3938 3.0, VISA 2057 3.0

9.0 credits chosen from Yr3-CSE Group:
(either CSE 2041 4.0 or CSE 3214 3.0), CSE 3421 3.0, CSE 3431
3.0, CSE 3461 3.0

6.0 credits chosen from Yr4-FFA Group:
FACS 4930 3.0, FACS 4931 3.0, FACS 4932 3.0, FACS 4933 3.0,
FACS 4935 3.0

6.0 credits chosen from Yr4-CSE Group:
CSE 4413 3.0, CSE 4431 3.0 ‡, CSE 4441 3.0, CSE 4461 3.0,
CSE 4471 3.0 ‡, CSE 4491 3.0 ‡

6.0 credits chosen from Yr3/4-COMN Group:
COMN 3313 3.00, COMN 3315 6.00, COMN 3316 6.00, COMN 3317 3.00, COMN 3318 6.00, COMN 3352 3.00,
COMN 3393 6.00, COMN 4300 6.00, COMN 4301 6.00, COMN 4302 6.00, COMN 4305 6.00, COMN 4306 6.00,
COMN 4307 6.00, COMN 4319 6.00, COMN 4320 6.00, COMN 4330 6.00, COMN 4801 6.00

<i>(no stream)</i>			Communication Networks		Intelligent Systems		Interactive Systems	
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
CSE3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>
			3213 or 3214	3	<input type="checkbox"/>	3402	3	<input type="checkbox"/>
			3451	4	<input type="checkbox"/>			<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4084	6	<input type="checkbox"/>	4081	6	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>						any 2 of:
CSE4xxx	3	<input type="checkbox"/>	4214	4	<input type="checkbox"/>	4401 or 4402	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4215	3	<input type="checkbox"/>	4421 or 4422	3	<input type="checkbox"/>
CSE total: 50				58			53	
								4431, 4441, 4461, or 4471
								6 <input type="checkbox"/>
								56
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"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>	MATH2030	3	<input type="checkbox"/>

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

General Education courses for Faculty of Science and Engineering:

*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 General Education courses from Science Academic Services, rm. 355 Lumbers.

** 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.

<i>(no stream)</i>			<i>Communication Networks</i>		<i>Intelligent Systems</i>		<i>Interactive Systems</i>	
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>	3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
CSE3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>	3401	3	<input type="checkbox"/>
			3213 or 3214	3	<input type="checkbox"/>	3402	3	<input type="checkbox"/>
			3451	4	<input type="checkbox"/>			
CSE4xxx	3	<input type="checkbox"/>						
CSE4xxx	3	<input type="checkbox"/>	4084	6	<input type="checkbox"/>	4081	6	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4214	4	<input type="checkbox"/>	4401 or 4402	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	4215	3	<input type="checkbox"/>	4421 or 4422	3	<input type="checkbox"/>
CSE total: 50			58			53		
								56
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"/>
MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>	MATH1310	3	<input type="checkbox"/>
MATH2030	3	<input type="checkbox"/>	MATH2030	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 total: 120

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

Faculty of Sc. & Eng.

<i>iBSc Degree</i>			<i>iBA Degree</i>		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>	CSE1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>	CSE/MATH1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>	CSE1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	CSE1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	CSE2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	CSE2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	CSE2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	CSE2031	3	<input type="checkbox"/>
CSE3000	3	<input type="checkbox"/>	CSE3000	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	CSE3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	CSE3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	CSE3311	3	<input type="checkbox"/>
CSE3401	3	<input type="checkbox"/>	CSE3401	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	CSE4xxx	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	CSE4xxx	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	CSE4xxx	3	<input type="checkbox"/>
CSE4xxx	3	<input type="checkbox"/>	CSE4xxx	3	<input type="checkbox"/>
CSE total:	50			50	

New in 2012/13 for the iBSc: **3 additional credits in non-CSE 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		
*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 General Education courses from Science Academic Services, rm. 355 Lumbers. May be satisfied by international studies courses.

** 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

Faculty: Science and Engineering

CSE Minor (BSc, BA). Must be paired with an honours major for a total of 120 2012-13 Checklist

B.Sc. Degree			B.A. Degree		
Course	Cr.		Course	Cr.	
CSE/MATH 1019	3	<input type="checkbox"/>	CSE/MATH 1019	3	<input type="checkbox"/>
CSE1710	3	<input type="checkbox"/>	CSE1710	3	<input type="checkbox"/>
CSE1720	3	<input type="checkbox"/>	CSE1720	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	CSE1030	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	CSE2011	3	<input type="checkbox"/>
At least 15 CSE credits with 2nd digit not 5; nine credits must be CSE3xxx or CSE4xxx	15	<input type="checkbox"/>	At least 15 CSE credits with 2nd digit not 5; nine credits must be CSE3xxx or CSE4xxx	15	<input type="checkbox"/>
CSE total:	30	<input type="checkbox"/>	30	<input type="checkbox"/>	
General Education *	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:		

**Please obtain a list of acceptable General Education courses from the Science Academic Centre in room 355 Lumbers Building.*

*** 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/CSE 1020 3.00 can be substituted for the pair SC/CSE1710 3.00 and SC/CSE1720 3.00 toward satisfying the minor requirements as long as the credit count for the minor remains 30 minimum

Faculty of Science & Engineering

B.Sc. Degree			B.A. Degree		
Course	Cr.	<input checked="" type="checkbox"/>	Course	Cr.	<input checked="" type="checkbox"/>
CSE1001	1	<input type="checkbox"/>	1001	1	<input type="checkbox"/>
CSE/MATH1019	3	<input type="checkbox"/>	1019	3	<input type="checkbox"/>
CSE1020	3	<input type="checkbox"/>	1020	3	<input type="checkbox"/>
CSE1030	3	<input type="checkbox"/>	1030	3	<input type="checkbox"/>
CSE2001	3	<input type="checkbox"/>	2001	3	<input type="checkbox"/>
CSE2011	3	<input type="checkbox"/>	2011	3	<input type="checkbox"/>
CSE2021	4	<input type="checkbox"/>	2021	4	<input type="checkbox"/>
CSE2031	3	<input type="checkbox"/>	2031	3	<input type="checkbox"/>
CSE3101	3	<input type="checkbox"/>	3101	3	<input type="checkbox"/>
CSE3221	3	<input type="checkbox"/>	3221	3	<input type="checkbox"/>
CSE3311	3	<input type="checkbox"/>	3311	3	<input type="checkbox"/>
CSE34xx	3	<input type="checkbox"/>	34xx	3	<input type="checkbox"/>
CSE3xxx	3	<input type="checkbox"/>	3xxx	3	<input type="checkbox"/>
CSE3xxx	3	<input type="checkbox"/>	3xxx	3	<input type="checkbox"/>
CSE total:	41		CSE total:	41	
9 additional credits in non-CSE 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"/>
General Education			General Education		
*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 CSE 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 FSE General Education courses from the Science Academic Centre in rm 355 Lumbers Building.

** 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

Engineering

The School of Engineering within the Faculty of Science and Engineering offers an Honours bachelor of applied science (BASc Honours) degree in engineering. After completion of a common first-year program, students will choose one of four available programs: computer engineering, geomatics engineering, software engineering or space engineering.

i) All BASc Honours degree candidates must complete the engineering program core: SC/CHEM 1000 3.00; SC/CSE 1020 3.00; SC/CSE 1030 3.00; SC/EATS 1010 3.00; SC/ENG 1000 6.00; SC/ENG 1001 1.00; SC/ENG 2001 3.00; SC/ENG 2002 3.00; SC/ENG 3000 3.00; SC/ENG 4000 6.00; ES/ENVS 2150 3.00; SC/MATH 1013 3.00; SC/MATH 1014 3.00; SC/MATH 1019 3.00; SC/MATH 1025 3.00; SC/MATH 2015 3.00; SC/PHYS 1010 6.00; SC/PHYS 2020 3.00.

ii) All BASc Honours degree candidates must complete 12 non-science general education credits (refer to General Education Requirements in the Faculty of Science and Engineering Regulations Governing Undergraduate Degree Requirements section).

iii) All BASc Honours degree candidates, in accordance with their declared stream, must satisfy the academic standing and course requirements below.

To graduate in the BASc Honours program requires successful completion of all Faculty requirements and program and stream required courses and a minimum cumulative credit-weighted grade point average of 5.00 (C+) over all courses completed.

iv) A non-credit, four to 16 month internship program (registered as SC/ENG 3900 0.00) is highly recommended for all engineering students, but is not a degree requirement.

Computer Engineering Stream

- The engineering program core;
- SC/CSE 2001 3.00; SC/CSE 2011 3.00; SC/CSE 2021 4.00; SC/CSE 2031 3.00;
- SC/MATH 1090 3.00; SC/MATH 2030 3.00;
- at least six 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, SC/EATS 1011 3.00, SC/PHYS 1070 3.00, SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, SC/PHYS 2060 3.00;
- SC/ENG 2200 3.00; SC/ENG 2210 3.00;
- SC/CSE 3101 3.00; SC/CSE 3201 4.00; SC/CSE 3213 3.00; SC/CSE 3215 4.00; SC/CSE 3221 3.00; SC/CSE 3311 3.00; SC/CSE 3451 4.00;
- three additional credits from computer science courses at the 3000 or 4000 level;
- SC/PHYS 2211 1.00;
- SC/CSE 4201 3.00; SC/CSE 4214 4.00; SC/CSE 4312 3.00;
- 12 credits from:¹ SC/CSE 3214 3.00, SC/CSE 3431 3.00, SC/CSE 4210 3.00^a, SC/CSE 4211 3.00, SC/CSE 4215 3.00^a, SC/CSE 4313 3.00, SC/CSE 4352 3.00^a, SC/CSE 4421 3.00^a, SC/CSE 4422 3.00^a, SC/CSE 4431 3.00^a, SC/CSE 4441 3.00, SC/CSE 4452 3.00^a, SC/CSE 4471 3.00^a, SC/ENG 3320 3.00, SC/ENG 4550 3.00.

Software Engineering Stream

- The engineering program core;
- SC/CSE 2001 3.00; SC/CSE 2011 3.00; SC/CSE 2021 4.00; SC/CSE 2031 3.00; SC/CSE 2311 3.00;
- SC/MATH 1090 3.00; SC/MATH 2030 3.00;
- SC/CSE 3101 3.00; SC/CSE 3201 4.00; SC/CSE 3215 4.00; SC/CSE 3221 3.00; SC/CSE 3311 3.00; SC/CSE 3342 3.00; SC/CSE 3451 4.00;
- SC/CSE 4312 3.00; SC/CSE 4313 3.00; SC/CSE 4314 3.00; SC/CSE 4315 3.00; SC/CSE 4413 3.00; SC/ENG 4550 3.00;
- SC/PHYS 2211 1.00;
- 12 additional credits from computer science courses at the 3000 and 4000 level. At least six of these credits must be from the following list: SC/CSE 3214 3.00, SC/CSE 3421 3.00, SC/CSE 3461 3.00, SC/CSE 4214 3.00, SC/CSE 4215 3.00, SC/CSE 4411 3.00, SC/CSE 4412 3.00, SC/CSE 4441 3.00.

¹ These twelve credits must include at least two courses (marked with an "a") that have a significant laboratory component.