

| <i>(no stream)</i> | | | <i>Communication Networks</i> | | | <i>Intelligent Systems</i> | | | <i>Interactive Systems</i> | | | <i>Software Development</i> | | |
|----------------------------|-----|-------------------------------------|-------------------------------|--------|-------------------------------------|----------------------------|-----|-------------------------------------|----------------------------|--------|-------------------------------------|-----------------------------|-----|-------------------------------------|
| 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"/> |
| CSE2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <input type="checkbox"/> | 2041 | 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"/> | 2311 | 3 | <input type="checkbox"/> |
| CSE3101 | 3 | <input type="checkbox"/> | 3101 | 3 | <input type="checkbox"/> | 3101 | 3 | <input type="checkbox"/> | 3101 | 3 | <input type="checkbox"/> | 3000 | 3 | <input type="checkbox"/> |
| CSE3215 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"/> |
| CSE3311 | 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 CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | One of 3401, 3421, 3461 | 3 | <input type="checkbox"/> | 3401 | 3 | <input type="checkbox"/> | CSE3xxx or 4xxx | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> |
| CSE3xxx | 3 | <input type="checkbox"/> | 3213 or 3214 3451 | 3 4 | <input type="checkbox"/> | CSE3xxx | 3 | <input type="checkbox"/> | 3461 3431 | 3 3 | <input type="checkbox"/> | 3342 | 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: 63 | | | 65 | | | 63 | | | 63 | | | 66 | | |
| 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"/> |
| CSE2041 | 4 <input type="checkbox"/> | 2041 | 4 <input type="checkbox"/> | 2041 | 4 <input type="checkbox"/> | 2041 | 4 <input type="checkbox"/> | 2041 | 4 <input type="checkbox"/> |
| CSE3000 | 3 <input type="checkbox"/> | 3000 | 3 <input type="checkbox"/> | 3000 | 3 <input type="checkbox"/> | 3000 | 3 <input type="checkbox"/> | 2311 | 3 <input type="checkbox"/> |
| CSE3101 | 3 <input type="checkbox"/> | 3101 | 3 <input type="checkbox"/> | 3101 | 3 <input type="checkbox"/> | 3101 | 3 <input type="checkbox"/> | 3000 | 3 <input type="checkbox"/> |
| CSE3215 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"/> |
| CSE3311 | 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 CSE3401, 3421, 3461 | 3 <input type="checkbox"/> | One of 3401, 3421, 3461 | 3 <input type="checkbox"/> | 3401 | 3 <input type="checkbox"/> | CSE3xxx or 4xxx | 3 <input type="checkbox"/> | 3311 | 3 <input type="checkbox"/> |
| CSE3xxx | 3 <input type="checkbox"/> | 3213 or 3214 | 3 <input type="checkbox"/> | CSE3xxx | 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"/> |
| +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: 63 | | 65 | | 63 | | 63 | | 66 | |
| 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.

Lassonde School of Engineering

International Dual Degree BSc Specialised Honours

2013-14 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"/> |
| CSE2041 | 4 | <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 or 3215 | 3 | <input type="checkbox"/> |
| CSE3311 | 3 | <input type="checkbox"/> |
| CSE3421 | 3 | <input type="checkbox"/> |
| The credit count of CSE4xxx must be at least 12.00 | | |
| +CSE41xx | 3 | <input type="checkbox"/> |
| CSE4088 6.0 (Undergrad Thesis) | 6 | <input type="checkbox"/> |
| CSE 3 or 4xxx | 3 | <input type="checkbox"/> |
| CSE 3 or 4xxx | 3 | <input type="checkbox"/> |
| CSE 3 or 4xxx | 3 | <input type="checkbox"/> |
| CSE 3 or 4xxx | 3 | <input type="checkbox"/> |
| CSE total: | 63 | |
| 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-CSE science subjects

General Education courses for the BSc:

| | | | |
|---------------|----|--------------------------|------------------------------|
| Gen Ed | 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

+ 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

Lassonde School of 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"/> |

* 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

Lassonde School of Engineering
Specialised Honours BA in Digital Media
Suggested Degree Progression and Checklist §
2013-2014

| | 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 |
| 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 |
| 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 |
| 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 |

† 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, ENV51500 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 3.0, COMN 3315 6.0, COMN 3316 6.0, COMN 3317 3.0, COMN 3318 6.0, COMN 3352 3.0,
COMN 3393 6.0, COMN 4300 6.0, COMN 4301 6.0, COMN 4302 6.0, COMN 4305 6.0, COMN 4306 6.0,
COMN 4307 6.0, COMN 4319 6.0, COMN 4320 6.0, COMN 4330 6.0, COMN 4801 6.0

120.0

| <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"/> |
| CSE2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <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 or 3215 | 3 | <input type="checkbox"/> | 3221 or 3215 | 3 | <input type="checkbox"/> | 3221 or 3215 | 3 | <input type="checkbox"/> |
| CSE3311 | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> |
| One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | 3401 | 3 | <input type="checkbox"/> |
| | | | 3213 or 3214 | 3 | <input type="checkbox"/> | | | |
| | | | 3451 | 4 | <input type="checkbox"/> | | | |
| CSE4xxx | 3 | <input type="checkbox"/> | 4084 | 6 | <input type="checkbox"/> | 4081 | 6 | <input type="checkbox"/> |
| CSE4xxx | 3 | <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: 54 | | | 62 | | | 54 | | |
| | | | | | | | | |
| 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> | | | 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"/> |
| CSE2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <input type="checkbox"/> | 2041 | 4 | <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 or 3215 | 3 | <input type="checkbox"/> | 3221 or 3215 | 3 | <input type="checkbox"/> | 3221 or 3215 | 3 | <input type="checkbox"/> |
| CSE3311 | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> |
| One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | 3401 | 3 | <input type="checkbox"/> |
| | | | 3213 or 3214 | 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: 54 | | | | 62 | | | 54 | |
| | | | | | | | | 57 |
| 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.

Lassonde School of Engineering

| <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"/> |
| CSE2041 | 4 | <input type="checkbox"/> | CSE2041 | 4 | <input type="checkbox"/> |
| CSE3000 | 3 | <input type="checkbox"/> | CSE3000 | 3 | <input type="checkbox"/> |
| CSE3101 | 3 | <input type="checkbox"/> | CSE3101 | 3 | <input type="checkbox"/> |
| CSE3221 or 3215 | 3 | <input type="checkbox"/> | CSE3221 or 3215 | 3 | <input type="checkbox"/> |
| CSE3311 | 3 | <input type="checkbox"/> | CSE3311 | 3 | <input type="checkbox"/> |
| One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | One of CSE3401, 3421, 3461 | 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: | 54 | | CSE total: | 54 | |

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

Lassonde School of Engineering

CSE Minor (BSc, BA). Must be paired with an honours major for a total of 120 2013-14 Checklist

| B.Sc. Degree | Course | Cr. | <input type="checkbox"/> | B.A. Degree | Course | Cr. | <input type="checkbox"/> |
|--|---|------------|---------------------------|---|---|------------|--------------------------|
| | 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

Lassonde School of 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 or 3215 | 3 | <input type="checkbox"/> | 3221 or 3215 | 3 | <input type="checkbox"/> |
| CSE3311 | 3 | <input type="checkbox"/> | 3311 | 3 | <input type="checkbox"/> |
| One of CSE3401, 3421, 3461 | 3 | <input type="checkbox"/> | One of 3401, 3421, 3461 | 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"/> | | | <p>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.</p> | | |
| **Lab courses 6 <input type="checkbox"/> | | | <p>Electives (outside CSE and not otherwise required) 18 <input type="checkbox"/></p> | | |
| Total Credits: 90 <input type="checkbox"/> | | | Total Credits: 90 <input type="checkbox"/> | | |

SOSC
HUMA
MODES
NATS

* 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

BACHELOR OF ENGINEERING DEGREE (BEng)

All BEng Honours degree candidates must complete 12 non-science credits and the engineering core: [SC/CHEM 1000 3.00](#); [LE/CSE 1020 3.00](#); [LE/CSE 1030 3.00](#); [SC/EATS 1010 3.00](#); [LE/ENG 1000 6.00](#); [LE/ENG 1001 1.00](#); [LE/ENG 2001 3.00](#); [LE/ENG 2002 3.00](#); [LE/ENG 3000 3.00](#); [LE/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](#).

All BEng degree candidates must complete 12 non-science general education credits (refer to General Education Requirements in the Lassonde School of Engineering Regulations section Governing Undergraduate Degree Requirements).

Computer Engineering

- The engineering core;
- [LE/CSE 2001 3.00](#); [LE/CSE 2011 3.00](#); [LE/CSE 2021 4.00](#); [LE/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](#);
- [LE/ENG 2200 3.00](#); [LE/ENG 2210 3.00](#);
- [LE/CSE 3101 3.00](#); [LE/CSE 3201 4.00](#); [LE/CSE 3213 3.00](#); [LE/CSE 3215 4.00](#); [LE/CSE 3221 3.00](#); [LE/CSE 3311 3.00](#); [LE/CSE 3451 4.00](#);
- three additional credits from computer science courses at the 3000 or 4000 level;
- [SC/PHYS 2211 1.00](#);
- [LE/CSE 4201 3.00](#); [LE/CSE 4214 4.00](#); [LE/CSE 4312 3.00](#);
- 12 credits from: [LE/CSE 3214 3.00](#), [LE/CSE 3431 3.00](#), [LE/CSE 4210 3.00*](#), [LE/CSE 4211 3.00](#), [LE/CSE 4215 3.00*](#), [LE/CSE 4313 3.00](#), [LE/CSE 4352 3.00*](#), [LE/CSE 4421 3.00*](#), [LE/CSE 4422 3.00*](#), [LE/CSE 4431 3.00*](#), [LE/CSE 4441 3.00](#), [LE/CSE 4452 3.00*](#), [LE/CSE 4471 3.00*](#), [LE/ENG 3320 3.00](#), [LE/ENG 4550 3.00](#).

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

* These 12 credits must include at least two courses with significant laboratory experience.

Software Engineering

- The engineering core;
- [LE/CSE 2001 3.00](#); [LE/CSE 2011 3.00](#); [LE/CSE 2021 4.00](#); [LE/CSE 2031 3.00](#); [LE/CSE 2311 3.00](#);
- [SC/MATH 1090 3.00](#); [SC/MATH 2030 3.00](#);
- [LE/CSE 3101 3.00](#); [LE/CSE 3201 4.00](#); [LE/CSE 3215 4.00](#); [LE/CSE 3221 3.00](#); [LE/CSE 3311 3.00](#); [LE/CSE 3342 3.00](#); [LE/CSE 3451 4.00](#);
- [LE/CSE 4312 3.00](#); [LE/CSE 4313 3.00](#); [LE/CSE 4314 3.00](#); [LE/CSE 4315 3.00](#); [LE/CSE 4413 3.00](#); [LE/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: [LE/CSE 3214 3.00](#), [LE/CSE 3421 3.00](#), [LE/CSE 3461 3.00](#), [LE/CSE 4214 3.00](#), [LE/CSE 4215 3.00](#), [LE/CSE 4411 3.00](#), [LE/CSE 4412 3.00](#), [LE/CSE 4441 3.00](#).

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

Electrical Engineering

- The engineering core;
- LE/CSE 2021 4.00; LE/CSE 2031 3.00;
- LE/CSE 2601 4.00; LE/CSE 2602 4.00; LE/CSE 2603 4.00;
- SC/PHYS 2211 1.00; SC/MATH 2030 3.00;
- LE/ENG 2200 3.00; LE/ENG 2210 3.00;
- LE/CSE 3201 4.00; LE/CSE 3215 4.00
- LE/CSE 3602 4.00; LE/CSE 3603 4.00; LE/CSE 3604 4.00;
- 3 credits chosen from 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, and SC/PHYS 2060 3.00.

Options: At least 24 additional credits from the following five lists, subject to the conditions below:

1. **Electronics option list:** *LE/CSE 3611 4.00, *LE/CSE 4611 4.00, LE/CSE 4612 4.00, LE/CSE 4613 4.00, LE/CSE 46144.00.
2. **Power option list:** LE/CSE 4613 4.00, *LE/CSE 4621 4.00, *LE/CSE 4622 4.00, LE/CSE 4623 4.00.
3. **Communications and Signal Processing option list:** LE/CSE 3213 3.00, LE/CSE 4210 3.00, *LE/CSE 4214 4.00, LE/CSE 4215 3.00, LE/CSE 4452 3.00, *LE/CSE 4631 4.00.
4. **Medical and Assistive Devices option list:** LE/CSE 3213 3.00, *LE/CSE 4641 4.00, *LE/CSE 4642 4.00, LE/CSE 4643 4.00, LE/CSE 46444.00.
5. **General list:** LE/CSE 3214 3.00, LE/CSE 3221 3.00, LE/CSE 3311 3.00, LE/CSE 3431 3.00, LE/CSE 3482 3.00, LE/CSE 4201 3.00, LE/CSE 4211 3.00, LE/CSE 4313 3.00, LE/CSE 4352 3.00, LE/CSE 4422 3.00, LE/CSE 4431 3.00, LE/CSE 4312 3.00, LE/CSE 4313 3.00, LE/CSE 4421 3.00, LE/CSE 4441 3.00, LE/CSE 4481 3.00, LE/CSE 4482 3.00.

Conditions:

- Students selecting an option must complete at least 15 credits from a single option list (any list other than the "General list"), including all courses on that list with an asterisk (*); and at least 7 credits in total from at least two other lists (24 credits in total).
- Students not selecting an option must complete credits from at least three lists, with no more than 12 credits selected from any single list; and at least two courses marked with an asterisk (*).
- If a student completes an option, a notation will be made on the student's transcript, indicating the option completed. No notation will be made for students not completing an option.
- Courses appearing on multiple lists may not be used to satisfy credit requirements simultaneously from more than one list.

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