## Computer Engineering Curriculum - Fall 2012

### CEGEP Entry

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Semester (Fall)</strong></td>
<td>15 credits</td>
<td></td>
</tr>
<tr>
<td>CIVE 281</td>
<td>3</td>
<td>C - MATH 262, MATH 263</td>
</tr>
<tr>
<td>COMP 202</td>
<td>3</td>
<td>P - MATH 140, MATH 141</td>
</tr>
<tr>
<td>MATH 262</td>
<td>3</td>
<td>P - MATH 141, MATH 133</td>
</tr>
<tr>
<td>MATH 263</td>
<td>3</td>
<td>C - MATH 262</td>
</tr>
<tr>
<td>CS</td>
<td>3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2nd Semester (Winter)</strong></td>
<td>16 credits</td>
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</tr>
<tr>
<td>COMP 250</td>
<td>3</td>
<td>P - MATH 140, MATH 141</td>
</tr>
<tr>
<td>ECSE 200</td>
<td>3</td>
<td>P - PHYS 142 or equivalent / C - MATH 263</td>
</tr>
<tr>
<td>ECSE 221</td>
<td>3</td>
<td>P - COMP 202</td>
</tr>
<tr>
<td>FACC 100</td>
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<tr>
<td>MATH 264</td>
<td>3</td>
<td>P - MATH 262 / C - MATH 263</td>
</tr>
<tr>
<td>MATH 270</td>
<td>3</td>
<td>P - MATH 263</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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<tbody>
<tr>
<td><strong>3rd Semester (Fall)</strong></td>
<td>17 credits</td>
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<tr>
<td>CCOM 206</td>
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<tr>
<td>ECSE 210</td>
<td>3</td>
<td>P - ECSE 200</td>
</tr>
<tr>
<td>ECSE 211</td>
<td>3</td>
<td>P - ECSE 200, COMP 202 / C - ECSE 291</td>
</tr>
<tr>
<td>ECSE 291</td>
<td>2</td>
<td>C - ECSE 210</td>
</tr>
<tr>
<td>ECSE 322</td>
<td>3</td>
<td>P - ECSE 200 or MECH 383, ECSE 221</td>
</tr>
<tr>
<td>CS</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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</thead>
<tbody>
<tr>
<td><strong>4th Semester (Winter)</strong></td>
<td>17 credits</td>
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</tr>
<tr>
<td>ECSE 306</td>
<td>3</td>
<td>P - ECSE 210, MATH 270</td>
</tr>
<tr>
<td>ECSE 321</td>
<td>3</td>
<td>P - COMP 202 or COMP 208</td>
</tr>
<tr>
<td>ECSE 323</td>
<td>5</td>
<td>P - CCOM 206 or EDEC 206, ECSE 211, ECSE 221, ECSE 291</td>
</tr>
<tr>
<td>ECSE 330</td>
<td>3</td>
<td>P - ECSE 210</td>
</tr>
<tr>
<td>MATH 363</td>
<td>3</td>
<td>P - MATH 263, MATH 264</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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</thead>
<tbody>
<tr>
<td><strong>5th Semester (Fall)</strong></td>
<td>15 credits</td>
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</tr>
<tr>
<td>COMP 251</td>
<td>3</td>
<td>P - COMP 203 or COMP 250</td>
</tr>
<tr>
<td>ECSE 305</td>
<td>3</td>
<td>P - ECSE 303 or ECSE 306</td>
</tr>
<tr>
<td>ECSE 353</td>
<td>3</td>
<td>P - ECSE 210, MATH 264</td>
</tr>
<tr>
<td>ECSE 427</td>
<td>3</td>
<td>P - ECSE 322 or COMP 273</td>
</tr>
<tr>
<td>Science</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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<tbody>
<tr>
<td><strong>6th Semester (Winter)</strong></td>
<td>18 credits</td>
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</tr>
<tr>
<td>ECSE 334</td>
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<td>P - ECSE 291, ECSE 303 or ECSE 306, ECSE 330</td>
</tr>
<tr>
<td>ECSE 425</td>
<td>3</td>
<td>P - ECSE 322, ECSE 323</td>
</tr>
<tr>
<td>ECSE 426</td>
<td>3</td>
<td>P - CCOM 206 or EDEC 206, ECSE 323</td>
</tr>
<tr>
<td>ECSE 456</td>
<td>3</td>
<td>P - ECSE 211, ECSE 322, ECSE 323, ECSE 330 / C - FACC 400</td>
</tr>
<tr>
<td>FACC 300</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECSE xxx</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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</thead>
<tbody>
<tr>
<td><strong>7th Semester (Fall)</strong></td>
<td>15 credits</td>
<td></td>
</tr>
<tr>
<td>ECSE 414</td>
<td>3</td>
<td>P - ECSE 322, ECSE 304 or ECSE 306</td>
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<tr>
<td>ECSE 457</td>
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<td>P - ECSE 456</td>
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<tr>
<td>FACC 400</td>
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<td>P - FACC 100, 60 program credits</td>
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<tr>
<td>ECSE xxx</td>
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<tr>
<td>ECSE xxx</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECSE xxx</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Technical, Lab and Basic Science Complementary course are selected from an approved list given on the next page.

The Complementary Studies (CS) courses are Impact of Technology courses (Group A) and Humanities & Social Sciences, Management Studies and Law courses (Group B). These must be chosen from an approved list of courses/departments, found in the program list under "Complementary Studies" in the Programs, Courses and University Regulations Calendar (www.mcgill.ca/study).

Students are responsible for satisfying pre/co-requisites and verifying with their department that they are meeting the requirements of their program.
## Technical Complementary Courses - Computer Engineering

### Technical Complementaries

Note: 500-level courses are restricted to students with a minimum CGPA of 3.0 and B+ or better in prerequisite courses.

9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
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</thead>
<tbody>
<tr>
<td>COMP 424</td>
<td>3</td>
<td>P - COMP 206/ECSE 321, COMP 251</td>
</tr>
<tr>
<td>ECSE 404</td>
<td>3</td>
<td>C - ECSE 304 or ECSE 306</td>
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<tr>
<td>ECSE 411</td>
<td>3</td>
<td>P - ECSE 305, ECSE 304 / ECSE 306</td>
</tr>
<tr>
<td>ECSE 412</td>
<td>3</td>
<td>P - ECSE 304 or ECSE 306</td>
</tr>
<tr>
<td>ECSE 420</td>
<td>3</td>
<td>P - ECSE 427</td>
</tr>
<tr>
<td>ECSE 421</td>
<td>3</td>
<td>P - ECSE 322, ECSE 323</td>
</tr>
<tr>
<td>ECSE 422</td>
<td>3</td>
<td>P - ECSE 322</td>
</tr>
<tr>
<td>ECSE 424</td>
<td>3</td>
<td>P - ECSE 322</td>
</tr>
<tr>
<td>ECSE 428</td>
<td>3</td>
<td>P - ECSE 321 or COMP 335</td>
</tr>
<tr>
<td>ECSE 429</td>
<td>3</td>
<td>P - ECSE 321 or COMP 303</td>
</tr>
<tr>
<td>ECSE 431</td>
<td>3</td>
<td>P - ECSE 323, ECSE 330</td>
</tr>
<tr>
<td>ECSE 436</td>
<td>3</td>
<td>P - ECSE 322, ECSE 323, ECSE 304/306</td>
</tr>
<tr>
<td>ECSE 443</td>
<td>3</td>
<td>P - ECSE 221, ECSE 330, ECSE 351/ECSE 353</td>
</tr>
<tr>
<td>ECSE 450</td>
<td>3</td>
<td>P - ECSE 221, ECSE 334, ECSE 352/ECSE 353</td>
</tr>
<tr>
<td>ECSE 530</td>
<td>3</td>
<td>P - ECSE 323</td>
</tr>
<tr>
<td>ECSE 532</td>
<td>3</td>
<td>P - ECSE 322</td>
</tr>
<tr>
<td>ECSE 537</td>
<td>3</td>
<td>P - ECSE 323, ECSE 334</td>
</tr>
<tr>
<td>ECSE 548</td>
<td>3</td>
<td>P - ECSE 323, ECSE 334</td>
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</tbody>
</table>

### Laboratory Complementaries

2-3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECSE 434</td>
<td>2</td>
<td>P - CCOM 206, ECSE 334</td>
</tr>
<tr>
<td>ECSE 436</td>
<td>3</td>
<td>P - ECSE 322, ECSE 323, ECSE 304/ECSE 306</td>
</tr>
<tr>
<td>ECSE 487</td>
<td>2</td>
<td>P - CCOM 206 / C - ECSE 425</td>
</tr>
<tr>
<td>ECSE 489</td>
<td>2</td>
<td>P - CCOM 206 / C - ECSE 414 or ECSE 528</td>
</tr>
<tr>
<td>ECSE 490</td>
<td>2</td>
<td>P - CCOM 206, ECSE 291 / C - ECSE 412 or ECSE 512</td>
</tr>
<tr>
<td>ECSE 491</td>
<td>2</td>
<td>P - CCOM 206, ECSE 291 / C - ECSE 411 or ECSE 511</td>
</tr>
<tr>
<td>ECSE 493</td>
<td>2</td>
<td>P - CCOM 206, ECSE 291 / C - ECSE 404 or ECSE 501</td>
</tr>
</tbody>
</table>

## Basic Science Complementary Courses - Computer Engineering

Students from CEGEP are required to complete one 3-credit course at the 200-level or higher, chosen from the following science departments, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering:

- Atmospheric and Oceanic Sciences (ATOC)
- Biology (BIOL)
- Chemistry (CHEM)
- Earth and Planetary Sciences (EPSC)
- Earth System Science (ESYS)
- Physics (PHYS)

**Updated: June 18, 2012**