McConnell Engineering Building, Room 320, 3480 University Street, Montreal, Quebec, H3A 0E9 Tel.: (514) 398-7071, Ext 00739

Science Freshman Program: Computer Science / Software Engineering

COMP 202 - Foundations of Programming
MATH 133 - Linear Algebra & Geometry
two calculus courses*
plus at least 3 of BIOL/CHEM/PHYS**

- Students who do not take COMP 202 in the freshman year may still follow these majors, but might have to start with COMP 202 in the U1 year.
- Students interested in the **Cognitive science minor** may also want to take **PSYC 100** *Introduction to Psychology*.
- Students interested in **Joint Physics and Computer Science** program must take **PHYS 131** *Mechanics and Waves* and **PHYS 142** *Electromagnetism & Optics*.
- Students interested in Joint Major in **Computer Science and Biology** program must take **BIOL 112** *Cell and Molecular Biology*.
- Students with High School calculus and who are interested in the **Joint Honours Mathematics and Computer Science** program are strongly advised to consider taking the more challenging calculus sequence **MATH 150** Calculus A and **MATH 151** Calculus B.
- Students who have not taken all of Biology, Chemistry and Physics at the grade 12 level should include any missing subjects in their freshman program.

Choosing your Calculus Courses*

- Students with no previous knowledge of Calculus should take MATH 139 Calculus 1 with Precalculus , followed by MATH 141 Calculus 2.
- ❖ Students with high school calculus take either the sequence MATH 140 Calculus 1 / MATH 141 Calculus 2 or the sequence MATH 150 Calculus A / MATH 151 Calculus B . The MATH 150/MATH 151 sequence covers the material of (and gives equivalence for) MATH 140, MATH 141 and MATH 222 Calculus 3 and is more challenging than the standard MATH 140/MATH 141 sequence.

Choosing your Physics courses**

- Students who want to take a physical science (Atmospheric and Oceanic Sciences, Chemistry, Earth Systems Science, Earth and Planetary Sciences or Physics) or who want to keep their options open should take the sequence PHYS 131 Mechanics and Waves / PHYS 142 Electromagnetism & Optics.
- Students in the biological sciences can take PHYS 131/PHYS 142, but may prefer to take the sequence PHYS 101 Intro Physics - Mechanics / PHYS 102 Intro Physics-Electromagnetism, which covers the same material but assumes less mathematical background.