

NOTE: Students who were admitted before 2013/2014 calendar term. Important to follow the term you were admitted in.



B.Sc. Major Program in Physics

The B.Sc. (Major) provides an education in the fundamentals of Physics and allows you to take a Minor in another discipline to suit your personal interests. Programs such as Computer Science are often chosen as a Minor in combination with Physics, as their course work complements Physics well, but any department offering a Minor is possible. This is a 20.0 credit program. Typically each year, you will take 5.0 credits (10 "half-courses"), and shown below are the courses that are normally taken in a given year, designed to satisfy the prerequisite structure. Not specified are possible elective courses, as there is some flexibility starting in year two.

Your First Year

Physics: PHYS 1001 and 1002 (recommended) or 1003 and 1004 or 1007 and 1008 (with an average grade of B- or higher)
Mathematics: MATH 1004, 1005 and 1104
Experimental Science: CHEM 1001 and CHEM 1002 or CHEM 1005 and CHEM 1006 or BIOL 1003 and BIOL 1004 or EARTH 1006 and EARTH 1009
Computer Science: COMP 1005 or ECOR 1606
Electives: NSCI 1000 or 0.5 credit approved arts or social science

In first year university, much of your schedule will be required courses, which are prerequisites to upper year courses. These will give you the basics that you need in order to continue on in the program as well as some breadth of study into subjects other than your major.

Your Second Year

Physics: PHYS 2202 and 2604
Mathematics: MATH 2004 and 3705
Electives: 1.0 credit in approved COMP, MATH, STAT or Engineering electives at the 2000-level or above (this may include 0.5 credit in 1000-level COMP)

Note: Requirement *B11 listed below

***B11:** 4.0 credits in Advanced Science Faculty and/or Approved Arts or Social Science and/or Engineering Electives selected in consultation with the Department to complement the study of physics; these credits can be used to complete the requirements of a minor designation in another discipline.

***A6:** 1.0 credit in PHYS at the 3000-level or above and 1.0 credit in ELEC and/or science faculty electives (excluding TSES courses) at the 3000-level or above.

Your final year will be, for the most part, self-directed, based on your specific interests in Physics, Engineering and Arts/Social Sciences. You may finish a Minor in another Department this year, as well as graduating with your General B.Sc. in Physics.

Your Third Year

Physics: PHYS 3007, 3308, 3606 (or 3608) ~~3701A~~ and PHYS 4409
Mathematics: STAT 2507 or 3502

Note: Requirement *A6 is referenced above

Your Fourth Year

Physics: 1.0 credit in PHYS at the 4000-level

Note: In addition to the above required courses, you must take 1.5 elective credits in approved Arts or Social Sciences and 1.0 credit in free electives as outlined in the Undergraduate Calendar.

Questions? Please feel free to contact the department : Loc: 3302 Herzberg Tel: (613) 520-4320
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