



**11 Month Secondary Option – Science Education: PHYSICS**  
**The University of British Columbia**  
Faculty of Education  
Pre-Admission Academic Self-Assessment Worksheet

Name \_\_\_\_\_  
Surname \_\_\_\_\_ Given Name \_\_\_\_\_ Initial \_\_\_\_\_

<b>Course Requirements</b> (At UBC: one full year course = 6 UBC credits, one half-year course = 3 credits)	<b>Sample UBC courses</b> (Equivalent courses completed at other accredited institutions are also acceptable)	<b>Courses Completed</b>	<b>Courses in Progress</b>
1) <b>6 credits of English literature and composition</b> 6 credits of English literature is acceptable, or the combination of 3 credits of composition and 3 credits of literature.	ENGL 110 and 112, 2xx- 6xx  English grammar, linguistics, creative writing, technical or business writing or communication courses <b>will not</b> fulfill this requirement.		
2) <b>Introductory courses in each of the following:</b> a. 6 credits chemistry, at least 3 credits (one course) which has a lab component b. 6 credits mathematics c. 6 credits biology ( <b>see Note 1</b> ) d. 3 credits earth science/geology/astronomy preferably with a lab component ( <b>See Note 2</b> )	a. CHEM 121 & 123 or 111, 113 etc. b. MATH 101, 101, 102, 103 etc. c. BIOL 111 + 140 or 121 + 140 etc d. EOSC 110 + 111 etc.		
3) <b>30 credits of physics coursework, 18 credits of which must be senior level (3xx-6xx)</b>	PHYS 1xx – 6xx (excluding PHYS 340, 341 or 343)		

**Breadth of coverage for Physics Education**

Coursework **must include at least one course at any level in the following four areas:** A) **mechanics** (ie: PHYS 216); B) **thermodynamics** (ie: PHYS 203, 313); C) **electricity and magnetism** (ie: PHYS 301); and D) **optics** (ie: PHYS 102, 108, 408). It is also recommended to include courses in acoustics (ie: PHYS 318); quantum mechanics (ie: PHYS 304) and atomic and nuclear physics (ie: PHYS 473).

**Admission Average Calculation**

A minimum average of 65% (2.5 on a 4 point scale) is required to be eligible for admission consideration. Calculated on 18 senior level credits of physics coursework used to meet our requirements in 3) above.

**Notes:**

1. Applicants without biology will also be considered for admission. Such applicants if admitted will be required to complete an education course, which will assist them with teaching biological sciences in secondary schools, as part of their program.
2. Applicants without earth science/geology/astronomy will also be considered for admission. Such applicants if admitted will be required to complete an education course, which will assist them with teaching earth science in secondary schools, as part of their program.
3. Degrees in Applied Science ( electrical, mechanical and civil engineering degrees) may also be accepted if they are deemed to have contained sufficient physics with acceptable grades. The Faculty determines the acceptability of such courses on an individual basis. Degrees such as computer engineering, metals and materials engineering, mining engineering, bio resource engineering, etc. do not satisfy admission requirements for physics. A student with such a degree is required to have completed a number of physics courses before applying.
4. Students planning are recommended to complete UBC PHYS 420C Physics Demonstrations in addition to the areas specified above.
5. A **French Immersion** option for teaching physics in the French language is available. In addition to meeting the physics course requirements above, applicants need to meet the language proficiency requirement (FLA or DALF <http://led.educ.ubc.ca/programs/frappraisal/> and have to complete 9 credits of French coursework at the 200 – 400 level: French composition (3 credits), French grammar (3 credits), and French literature (3 credits)
6. Detailed UBC course information: [www.students.ubc.ca/courses](http://www.students.ubc.ca/courses).