

Archived: August 8, 2022

Science and Technology Programs

Physics (BSc)

Location Offered:

Nanaimo

Credential:

Transfer Program

Options:

Transfer Program

Program Length:

4 Years

The Program

The primary reason for becoming a physicist is curiosity. Whether it is the strange world of sub-atomic particles, the operation of a laser, the motion of the planets, or even the formation of a rainbow, physicists want to understand how the universe really works.

A physics degree will provide even more than this. With training in quantitative thinking, problem solving, modeling, and experimental techniques, a physics background provides entry into a wide variety of fields. Indeed, physicists are at the forefront in many of the hottest science and technology fields such as superconductivity, nanotechnology, fuel cells, and medical imaging.

VIU offers the first year of a four-year B.Sc. program in Physics. Students can transfer to the University of British Columbia (UBC) or the University of Victoria (UVic) after the first year. Students who wish to transfer to Physics programs offered at other universities need to check the program requirements of the receiving institution to determine the required courses. For further information, students should contact VIU's Physics department or the Advising Centre at 1-888-920-2221, Ext. 6410.

Program Outline

UVic Transfer

Year 1	Credits
PHYS 121 - (Physics for the Physical Sciences I) PHYS 122 - (Physics for the Physical Sciences II)	8
MATH 100 - (Calculus for Engineering and Physical Sciences I) MATH 101 - (Calculus for Engineering and Physical Sciences II) <i>or</i> MATH 121 - (Calculus I) MATH 122 - (Calculus II) MATH 110 - (Additional Calculus Topics)	6 <i>or</i> 7
Select <i>one</i> of the following pairs*: CHEM 140* - (Chemistry Fundamentals I) <i>and</i> , CHEM 141* - (Chemistry Fundamentals II) <i>or</i> CHEM 142* - (Chemistry Fundamentals II)	8
CSCI 160 - (Computer Science I)	4
ENGL 115 - (University Writing and Research)	3
Electives**	6 <i>or</i> 8

** Students wishing to take the General Physics program at UVic can replace CHEM 140/141/142 with two additional electives (minimum three or four credits each).*

*** Electives should be chosen from within the Faculty of Science and Technology. Recommended electives include CSCI 161, ASTR 111, or ASTR 112.*

UBC Transfer

Year 1	Credits
CHEM 140* - (Chemistry Fundamentals I)	4
ENGL 115 - (University Writing and Research) <i>and</i> , ENGL 125 - (Literature and Culture) <i>or</i> , ENGL 135 - (Literature and Criticism)	6
MATH 100 - (Calculus for Engineering and Physical Sciences I) MATH 101 - (Calculus for Engineering and Physical Sciences II) <i>or</i> MATH 121 - (Calculus I) MATH 122 - (Calculus II) MATH 110 - (Additional Calculus Topics)	6 <i>or</i> 7
PHYS 121 - (Physics for the Physical Sciences I) PHYS 122 - (Physics for the Physical Sciences II)	8
Electives*	8

** Either CSCI 160 (Computer Science I) or CSCI 161 (Computer Science II), and one course in Biology are recommended.*

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