

# PHYSICS (PH.D.)

**Offered by:** Physics (Faculty of Science)

**Degree:** Doctor of Philosophy

## Program Description

The Ph.D. in Physics focuses on conducting research in a broad range of fields at the cutting edge of physics, which include but are not limited to astronomy, high energy physics, condensed matter physics, materials science and biophysics. The thesis must focus on research in an area related to one of the Department's research groups, and must produce original contributions to scholarship.

**Note:** For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

## Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

## Required Course

Expand allContract all

Course	Title	Credits
PHYS 700	Preliminary Ph.D. Examination.	0

## Complementary Courses (6-9 credits)

0-3 credits from:

Expand allContract all

Course	Title	Credits
PHYS 601	Introduction to Graduate Studies in Physics 1.	1.5
PHYS 602	Introduction to Graduate Studies in Physics 2.	1.5

<sup>1</sup> Students who completed PHYS 601 and PHYS 602 as part of the McGill M.Sc. in Physics program are exempt from these courses.

6 credits at the 600 level or higher, with at least 3 credits in the candidate's area of specialization. Students who completed two or more courses at the 600-level as part of the McGill M.Sc. in Physics program may contact the department to request a 3-credits exemption.