

[ARCHIVED CATALOG]

Doctor of Philosophy with specialization in Medical Physics (Oncology)

Admission to the PhD is dependent on the recommendation of the Graduate Coordinating Committee.

Program Requirements

Students are required to complete a minimum of 6 units in coursework beyond the MSc requirements, and a thesis

Coursework

- Two 3-unit courses in areas of advanced specialization or elective, based on research interests and discussions with the supervisor and the Director of the Medical Physics program, chosen from the following:
 - Magnetic Resonance Physics subspecialty [ONCOL 690](#)
 - Magnetic Resonance Physics subspecialty [ONCOL 691](#)
 - Radiological and Nuclear Medical Physics subspecialty [ONCOL 692](#)
 - Radiation Oncology Physics subspecialty [ONCOL 693](#)
 - Elective [PHYS 511](#)
- Students entering the PhD in Medical Physics directly after an Honors BSc degree must also complete all required and elective coursework from [Master of Science with specialization in Medical Physics \(Oncology\)](#) program.

Thesis

- Registration in 900-level THES. The student's research is presented in the form of a thesis which must be defended before a final examining committee.

PhD Proposal

Students must write a PhD proposal in the form of a research grant proposal that is approved by the supervisory committee usually within 12 -30 months of the start of the graduate program. The PhD proposal must be approved before initiating the candidacy exam process.

Candidacy Exam

Medical Physics PhD students must pass an oral candidacy examination consisting of a defence of the research proposal including general medical physics. Students must successfully pass one of the Advanced Specialization Courses before proceeding to the candidacy exam.

Ethics Requirement

Students must meet the [FGSR Ethics and Academic Citizenship Training Requirement](#) through the completion of [INT D 710](#) (for both master's and doctoral students) and [INT D 720](#) (for doctoral students) by the end of the first term of registration in their degree program.

Residence Requirement

The minimum period of residence is two academic years of full-time attendance at the University of Alberta.

Length of Program

The maximum time to complete the PhD program as set by the Faculty of Graduate Studies and Research is six years.
