

New Program/Major or Minor/Concentration Proposal Form

(2017)

<p>1.0 Degree Title Please specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Graduate Diploma</div> <p>1.1 Major (Legacy= Subject)(30-char. max.)</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Medical Radiation Physics</div> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable to Majors only (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; width: 90%;"></div> <p>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; width: 90%;"></div>	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Graduate and Postdoctoral Studies</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">Medicine/Medical Physics</div> <p>3.0 Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">201809</div>
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4.0 Rationale and Admission Requirements for New Proposal

This diploma program is created for students who wish to complete the course work for the existing M.Sc. in Medical Radiation Physics [52 cr.] without completing the 24-credit thesis.
Admission requirements: Candidate must hold M.Sc. or Ph.D. in Physics, Engineering Physics, Biomedical Engineering, or related discipline.
Candidate's B.Sc. must be in Physics, physics engineering, or related field.

The Medical Physics Unit offers only one program, therefore there are no low-enrolment programs to review, revise or retire.

5.0 Program Information
Please check appropriate box(es)

<p>5.1 Program Type</p> <p>Bachelor's Program</p> <p>Master's</p> <p>M.Sc. (Applied) Program</p> <p>Dual Degree/Concurrent Program</p> <p>Certificate</p> <p>Diploma</p> <p>Graduate Certificate</p> <p><input checked="" type="checkbox"/> Graduate Diploma</p> <p>Ph.D. Program</p> <p>Doctorate Program (Other than Ph.D.)</p> <p>Self-Funded/Private Program</p> <p>Off-Campus Program</p> <p>Distance Education Program (By Correspondence)</p> <p>Other (Please specify)</p>	<p>5.2 Category</p> <p>Faculty Program (FP)</p> <p>Major</p> <p>Joint Major</p> <p>Major Concentration (CON)</p> <p>Minor</p> <p>Minor Concentration (CON)</p> <p>Honours (HON)</p> <p>Joint Honours Component (HC)</p> <p>Internship/Co-op</p> <p>Thesis (T)</p> <p>Non-Thesis (N)</p> <p>Other</p> <p>Please specify</p> <div style="border: 1px solid black; height: 20px; width: 90%; margin-top: 5px;"></div>	<p>5.3 Level</p> <p>Undergraduate</p> <p>Dentistry/Law/Medicine</p> <p>Continuing Studies (Non-Credit)</p> <p>Collegial</p> <p><input checked="" type="checkbox"/> Masters & Grad Dips & Certs</p> <p>Doctorate</p> <p>Post-Graduate Medicine/Dentistry</p> <p>Graduate Qualifying</p> <p>Postdoctoral Fellows</p> <p>5.4 FQRSC (Research) Indicator (for GPS) Yes ___ No <u>X</u></p> <p>5.5 Requires Resources Yes ___ No <u>X</u></p>
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<p>6.0 Total Credits</p> <div style="border: 1px solid black; padding: 2px; width: 90%;">31</div>	<p>7.0 Consultation with Related Units Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Financial Consult Yes ___ No <input checked="" type="checkbox"/></p> <p>Attach list of consultations.</p>
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8.0 Program Description (Maximum 150 words)

The Diploma in Medical Radiation Physics is intended to provide candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background. The diploma program is accredited as a "Certificate" by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP). This is an entry-level graduate program, however, none of the courses taken in the graduate diploma can be credited towards the M.Sc. Medical Radiation Physics program once the diploma has been completed.

9.0 List of proposed program for the New Program/Major or Minor/Concentration.

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight under the headings of: Required Courses, Complementary Courses, Elective Courses)

Diploma in Medical Radiation Physics (31 credits)**Required Courses (31 credits)**

MDPH 601 Radiation Physics (3 credits)

MDPH 602 Radiotherapy Physics (3 credits)

MDPH 603 Laboratory Radiotherapy Physics (2 credits)

MDPH 607 Medical Imaging (3 credits)

MDPH 608 Laboratory - Diagnostic Radiology and Nuclear Medicine (2 credits)

MDPH 609 Radiation Biology (2 credits)

MDPH 612 Instrumentation and Computation in Medical Physics (3 credits)

MDPH 613 Health Physics (2 credits)

MDPH 614 Physics of Diagnostic Radiology (3 credits)

MDPH 615 Physics of Nuclear Medicine (2 credits)

MDPH 618 Anatomy and Physiology for Medical Physics (3 credits)

PHIL643 Seminar: Medical Ethics (3 credits)

10.0 Approvals

Routing Sequence

Name

Signature

Date

Department

Jan Seuntiens, Ph.D.

[Signature]

April 3, 2018

Curric/Acad Committee

Leah Giamakis on behalf of

[Signature]

April 5, 2018

Faculty 1

Eraine Davis

[Signature]

April 5, 2018

Faculty 2

Faculty 3

CGPS

SCTP

APC

Senate

Submitted by

Name

To be completed by ARR:

Phone

CIP Code

Email

Submission Date

Existing program:**Master of Science (M.Sc.) in Medical Radiation Physics; Thesis (52 credits)**

Program Requirements

The M.Sc. program in Medical Radiation Physics provides candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background and enables candidates to undergo further training through a clinical residency program or to further advanced graduate studies in medical physics through a Ph.D. degree. Graduates from the program typically find employment in clinical settings, academia, industry, or governmental research and regulatory agencies. The program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP).

Thesis Courses (24 credits)

MDPH 690 M.Sc. Thesis Research (24 credits)

Required Courses (28 credits)

MDPH 601 Radiation Physics (3 credits)

MDPH 602 Radiotherapy Physics (3 credits)

MDPH 603 Laboratory Radiotherapy Physics (2 credits)

MDPH 607 Medical Imaging (3 credits)

MDPH 608 Laboratory - Diagnostic Radiology and Nuclear Medicine (2 credits)

MDPH 609 Radiation Biology (2 credits)

MDPH 612 Instrumentation and Computation in Medical Physics (3 credits)

MDPH 613 Health Physics (2 credits)

MDPH 614 Physics of Diagnostic Radiology (3 credits)

MDPH 615 Physics of Nuclear Medicine (2 credits)

MDPH 618 Anatomy and Physiology for Medical Physics (3 credits)