

## PhD Medical Physics Track (CIP code 26.0209.04) Example Training Plan

### YEAR 1

<i>Fall Semester</i>		<i>CU</i>	<i>Spring Semester</i>		<i>CU</i>
RADI 5001 *Basic Radiation Safety		1	RADI 6024 *†Radiological Anatomy & Physiology		3
RADI 5015 *†Physics of Diag. Imaging I		3	MEDICAL PHYSICS ELECTIVE		3
RADI 6049 *Introduction to MRI		2	RADI 5007 *†Statistics in Radiological Sciences		2
RADI 5005 †Fund. of Radiation Dosimetry		3	RADI 5090 *Seminars in Radiological Sciences		1
RADI 6030 †Physics of Radiotherapy		3	RADI 5020 †Principles of Health Physics I		3
		<b>TOTAL 12</b>			<b>TOTAL 12</b>

### YEAR 2

<i>Fall Semester</i>		<i>CU</i>	<i>Spring Semester</i>		<i>CU</i>
RADI 5025 †Molec. Oncol. & Radiobiology		3	RADI 6012 *Physics of Nuclear Medicine		3
MEDICAL PHYSICS ELECTIVE		3	MEDICAL PHYSICS ELECTIVE		3
MEDICAL PHYSICS ELECTIVE		3	MEDICAL PHYSICS ELECTIVE		3
RADI 5090 *Seminars in Radiol. Sci.		1	RADI 6097 *Research		3
TSCI 5070* Respon. Conduct Research		2			
		<b>TOTAL 12</b>			<b>TOTAL 12</b>

### YEAR 3

<i>Fall Semester</i>		<i>CU</i>	<i>Spring Semester</i>		<i>CU</i>
RADI 5090 *Semin. Radiological Sci.		1	RADI 5090 *Seminars in Radiological Sciences		1
RADI 6071 Supervised Teaching		1	RADI 6071 Supervised Teaching		1
RADI 6097 *Research		10	RADI 6097 *Research		10
		<b>TOTAL 12</b>			<b>TOTAL 12</b>

### YEAR 4

<i>Fall Semester</i>		<i>CU</i>	<i>Spring Semester</i>		<i>CU</i>
RADI 7099 *Dissertation		12	RADI 7099 *Dissertation		12
		<b>TOTAL 12</b>			<b>TOTAL 12</b>

**TOTAL FOR DEGREE 96 CU**

\* Course required for all RADSCI students

† Course required by CAMPEP for all Medical Physics students

‡ Student must be admitted to PhD candidacy to enroll in RADI 7099 - Dissertation

\*\*Students who have completed their qualifying exam and have been accepted into candidacy should take RADI 7099 – Dissertation instead of RADI 6097-Research

Students who are unable to complete their dissertation research within the four-year period may continue to be enrolled and take as many hours of RADI 7099 (Dissertation) as is appropriate to their student enrollment status (full- or part-time).

NOTE: Up to two hours of RADI 5090 can be waived if the student presents research to local and national scientific meeting or equivalent, as approved by COGS.

**Possible Elective Courses** (student shall work with Supervising Professor to determine most appropriate courses)

RADI 5018 Physics Measurements in Imaging	RADI 6035 Physics Measurements in
RADI 6017 Neuroimaging Methods	Radiotherapy II – <i>pre-requisite: RADI</i>
RADI 6019 Medical Image Processing	<i>6031</i>
RADI 6033 Advanced Radiotherapy Physics –	RADI 6015 Physics of Diagnostic Imaging II –
<i>pre-requisite: RADI 6030</i>	<i>pre-requisite: RADI 5015</i>
RADI 6051 Statistical Parametric Mapping	RADI 6050 Magnetic Resonance Imaging – <i>pre-</i>
RADI 6031 Physics Measurements in	<i>requisite: RADI 6049</i>
Radiotherapy I	RADI 6091 Special Topics
RADI 6042 Non-Ionizing Radiation Biology	