**PhD Radiation Biology Track** (CIP code 26.0209.01) Example Training Plan

### YEAR 1

**Fall Semester** | **CU** | **Spring Semester** | **CU**
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RADI 5001 *Basic Radiation Safety* | 1 | RADI 6024 *Radiological Anatomy & Physiology* | 3
INTD 5000 Fund. Biomedical Sciences | 8 | RADI 6012 *Physics of Nuclear Medicine* | 3
RADI 5025 Molec. Oncol. & Radiobiology | 3 | RADI 5020 Principles of Health Physics I | 3
RADI 5090 *Seminars in Radiological Sciences* | 1 | RADI 5007 *Statistics in Radiological Sciences* | 2
**TOTAL 12** | **TOTAL 12**

### YEAR 2

**Fall Semester** | **CU** | **Spring Semester** | **CU**
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RADI 5015 *Physics of Diag. Imaging I* | 3 | RADIATION BIOLOGY ELECTIVE | 3
TSCI 5070* Respon. Conduct Research | 2 | RADI 5090 *Seminars in Radiological Sciences* | 1
RADI 5090 *Semin. Radiological Sci.* | 1 | RADI 6097 *Research* | 5
RADI 6049 *Introduction to MRI* | 2 | RADIATION BIOLOGY ELECTIVE | 3
RADI 6097 *Research* | 4 | **TOTAL 12** | **TOTAL 12**

### YEAR 3

**Fall Semester** | **CU** | **Spring Semester** | **CU**
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RADI 5090 *Semin. Radiological Sci.* | 1 | RADI 6097 *Research* | 12
RADI 6071 Supervised Teaching | 2 | **TOTAL 12** | **TOTAL 12**
RADI 6097 *Research* | 9

### YEAR 4

**Fall Semester** | **CU** | **Spring Semester** | **CU**
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RADI 7099 *‡Dissertation* | 12 | RADI 7099 *‡Dissertation* | 12
**TOTAL 12** | **TOTAL 12**

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* Course required for all RADSCI 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

**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.

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).

**Possible Elective Courses** (student works with Supervising Professor to decide most appropriate courses)

- INTD 5007 Adv. Cell and Molecular Biology
- RADI 6042 Non-Ionizing Radiation Biology and Biophysics
- RADI 5050 Human Electrophysiology: Brain
- RADI 6015 Physics of Diagnostic Imaging II
- RADI 6019 Medical Image Processing
- RADI 6020 Advanced Topics in Cognitive Neuroscience
- RADI 6028 Advanced Molecular Biology
- RADI 6050 Magnetic Resonance Imaging
- RADI 6091 Special Topics