EXAMPLE ACADEMIC PLAN FOR PhD in PHYSICS - MEDICAL PHYSICS OPTION
Entering with BS in Physics

This sequence assumes the entering student has adequate preparation in undergraduate Mechanics, Electricity and Magnetism, Quantum Mechanics and Statistical Mechanics; therefore no physics remedial courses (95.500 level) are necessary.

Year 1, Semester 1 (Fall)
- 95.605 Mathematical Methods of Physics I (3)
- 98.501 Radiation Safety and Control – I (3)
- 98.509 Nuclear Instrumentation (3)
- 98.711 Radiological Sciences Seminar (0)
- 96.701 Physics Colloquium (0)

Year 1, Semester 2 (Spring)
- 95.606 Mathematical Methods of Physics II (3)
- 98.596 Introduction to Medical Imaging (3)
- 98.562 Radiation Biology (3)
- 98.712 Radiological Sciences Seminar (0)
- 96.702 Physics Colloquium (0)

Year 1, Summer Trimester
- 34.651 Sectional Human Anatomy (3)
- 34.659 Sectional Human Anatomy Lab (1)

Year 2, Semester 3 (Fall)
- 98.597 Advanced Medical Imaging Physics (3)
- 98.605 Radiation Interactions & Transport (3)
- 98.533 External Dosimetry and Shielding (3)
- 98.711 Radiological Sciences Seminar (0)
- 96.701 Physics Colloquium (0)

— TARGET DATE FOR COMPREHENSIVE EXAMINATION —

Year 2, Semester 4 (Spring)
- 98.565 Radiation Therapy Physics (3)
- 98.606 Monte Carlo Simulation of Radiation Transport (3)
- 98.541 Radiochemistry or other Elective (3)
- 98.712 Radiological Sciences Seminar (0)
- 96.702 Physics Colloquium (0)

Year 3, Semester 5 (Fall)
- 95.615 Quantum Mechanics I (3)
- 98.676 Graduate Medical Physics Internship (1)
Year 3, Semester 6 (Spring)

95.616 Quantum Mechanics II (3)
98.665 Advanced Radiation Therapy Physics (3)
98.686 Advanced Medical Physics Internship (1)
95.731 Advanced Project (3)
98.712 Radiological Sciences Seminar (0)
96.702 Physics Colloquium (0)

— TARGET DATE FOR GRADUATE RESEARCH ADMISSION EXAM —

Year 4, Semester 7 (Fall)

Approved Elective (3)
96.756 PhD dissertation Research (6)
98.711 Radiological Sciences Seminar (0)
96.701 Physics Colloquium (0)

Year 4, Semester 8 (Spring)

Approved Elective (3)
96.756 PhD dissertation Research (6)
98.712 Radiological Sciences Seminar (0)
96.702 Physics Colloquium (0)

Year 5, Semester 9 (Fall)

96.756 PhD dissertation Research (9)
98.711 Radiological Sciences Seminar (0)
96.701 Physics Colloquium (0)

Year 5, Semester 10 (Spring)

96.756 PhD dissertation Research (9)
98.712 Radiological Sciences Seminar (0)
96.702 Physics Colloquium (0)

— TARGET DATE FOR DISSERTATION DEFENSE —