

Semester Map

**Curriculum of the 2-years 41-credits URI-RIH program in Medical Physics,
which offers M.S. in Medical Physics**

		Required Courses			Credits
Pre-requisites: BIO220(3)+ BIO222(1); BIO221 (3) + BIO223 (1); PHY210 (1); or equivalents					
F-1	ELE564 /ELE565 (4)	PHY540 (3)	PHY550 (3)	PHY210 (1)	10
S-1	PHY545 (3) or PHY560 (3)	PHY565 (3) or PHY585 (4)	PHY552 (3)	PHY591 (5)	14 or 15
F-2	PHY555 (4)		PHY590 (3)		4 + 3 research
S-2	PHY560 (3) or PHY545 (3)	PHY585 (4) or PHY565 (3)	PHY590 (3)		7 or 6 + 3 research
Total number of credits					41

Pre-requisites:

- PHY210 (1) Radiation Safety (suggested to take on F-1 or before entering the program)
- BIO220-222 (4) Human Anatomy (Lecture + Lab) (suggested to take during summer or
before entering the program)
- BIO221-223 (4) Introductory Human Physiology (Lecture + Lab) (suggested to take during
summer or before entering the program)

Required graduate courses:

- PHY540 (3) Modern Biological Physics
- PHY545 (3) Nanotechnology in Imaging and Therapy (Odd years)
- PHY550 (3) Introduction to Radiation Physics and Dosimetry
- PHY552 (3) Radiobiology
- PHY555* (4) Radiation Oncology Clinical Practicum
- PHY560 (3) Experimental Methods in Physics (Even years)
- PHY565 (3) Radiation Detection, Instrumentation and Data Analysis (Odd years)
- ELE564/565(4) Medical Imaging (Lecture + Lab)
- PHY585 (4) Advanced Clinical Medical Imaging (Even years)
- PHY591 (5) Advanced Radiation Therapy Physics
- PHY590 (6) Research Project at RIH or URI

*PHY555 will be given at RIH