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); SOC224 (3) 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)	SOC224 (3)	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)
SOC224 (3)	Health, Illness, and Medical Care (suggested to take on F-2 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, PHY585, PHY591 will be given at RIH