

University of Massachusetts Lowell

CORE MEDICAL PHYSICS CURRICULUM

Course		Credit hours	Offered
98.501	Radiation Safety and Control – I	(3-4)	Fall
98.509	Nuclear Instrumentation	(3)	Fall
98.533	External Dosimetry and Shielding	(3)	Fall
98.562	Radiation Biology	(3)	Spring
98.596	Introduction to Medical Imaging	(3)	Spring
98.597	Advanced Medical Imaging Physics	(3)	Fall
98.605	Radiation Interactions and Transport	(3)	Fall
98.606	Monte Carlo Simulation of Radiation Transport	(3)	Spring
98.565	Radiation Therapy Physics	(3)	Spring
98.665	Advanced Radiation Therapy Physics	(3)	Spring
98.676	Graduate Medical Physics Internship (Clinical Rotation – I)	(1-3)	Fall, Spring, Summer
98.686	Advanced Medical Physics Internship (Clinical Rotation – II)	(1-3)	Fall, Spring, Summer
98.711	Radiological Sciences Seminar [†]	(0-1)	Fall, Spring
98.743	Thesis Research	(3-9)	Fall, Spring, Summer
IB.520	Ethical Issues in Biomedical Research [¶]	(1)	Spring

A course in human anatomy is required before graduation[¶]

[†] Taken in every semester for 0 credit, except when giving a presentation for 1 credit

[¶] May be taken prior to entry to the UML Medical Physics Program at another institution or via the Radiological Society of North America or equivalent on-line course.