

MS Curriculum and Academic Plan for Medical Physics Specialization

PROGRAM PRE-REQUISITES			
1. Equivalent of a minor in Physics			
FIRST FALL SEMESTER		Pre-Reqs	CREDITS
BME 6535	Radiological Physics, Measurements and Dosimetry	Upper Level College Physics	3
BME 6590	Medical Physics	Upper Level College Physics	3
BME 6533	Radiological Anatomy	College Level Biology	3
<i>Total:</i>			9
FIRST SPRING SEMESTER			
BME 6591	Therapeutic Radiological Physics I	BME 6xxx, BME 6xxx, BME 6533	3
ENU 6657	Diagnostic Radiological Physics	BME 6xxx, BME 6xxx, BME 6533	3
ENU 5626	Radiation Biology	College Level Biology	3
<i>Total:</i>			9
FIRST SUMMER SEMESTER			
ENU 6652	Practicum in Diagnostic Radiological Physics	ENU 6657	1or3
BME 6592	Therapeutic Radiological Physics II	Therapeutic Rad Phys I	3
<i>Total:</i>			4or6

SECOND FALL SEMESTER			
ENU 5658	Imaging System Analysis	ENU 6657 or instructor permission	3
BME 6936	Biomedical Engineering Seminar	None	1
Elective Course Offerings**			
BME 6505	Advanced Diagnostic Imaging	ENU 6657	3
BME 6593	Therapeutic Radiological Physics III	Therapeutic Rad Phys II	3
<i>Total:</i>			4-9
SECOND SPRING SEMESTER			
ENU 6636	Medical Radiation Shielding and Protection	BME 6xxx or ENU 6051	3
ENU 6659	Nuclear Medicine Physics	BME 6xxx, BME 6xxx, BME 6533	3
BME 6936	Biomedical Engineering Seminar	None	1
BME 6971	Masters Research*		3
BME 6907 or	Non-thesis Research Projects*		
Elective Course Offerings**			
ENU 6623	Radiation Dosimetry	BME 6xxx or ENU 6051	3
<i>Total:</i>			10- 13
Total Hours			39 min

* A minimum of 3 hours of either Masters Research or Non-Thesis Research must be completed as part of the graduate program. It is suggested that students begin their research in the first summer, but may be varied at the discretion of the student's research advisor and supervisory committee. It is anticipated that most students will register for additional research credits throughout their academic program.

**Students must complete one of the Elective Course Offerings