

Academic Plan for Medical Physics Masters Degree

FIRST FALL SEMESTER		CREDITS
ENU 5615	Radiation Detection & Instrumentation	3
ENU 5615L	Radiation Detection & Instrumentation Lab	1
ENU 6051	Radiation Interaction Basics & Applications I	3
ENU 6061	Survey of Medical Radiological Physics	1
ENU 6935	Graduate Colloquium	<u>1</u>
<i>Total:</i>		<i>9</i>
FIRST SPRING SEMESTER		
ENU 6627	Therapeutic Radiological Physics	3
ENU 6657	Diagnostic Radiological Physics	3
ENU 6659	Nuclear Medicine Physics	<u>3</u>
<i>Total:</i>		<i>9</i>
FIRST SUMMER SEMESTER		
ENU 6652	Practicum in Diagnostic Radiological Physics	3
ENU 6651	Practicum in Therapeutic Radiological Physics	3
ENU 6971	Masters Research (optional)	<u>3</u>
<i>Total:</i>		<i>9</i>
SECOND FALL SEMESTER		
ENU 5626	Radiation Biology	3
BME 5001*	Anatomy and Physiology for Engineers I	3
ENU 6937	Specialization Course (select one from list below)	<u>3</u>
<i>Total:</i>		<i>9</i>
SECOND SPRING SEMESTER		
ENU 6636	Medical Radiation Protection	3
ENU 6623	Radiation Dosimetry	<u>3</u>
ENU 6971	Project/Thesis Research and/or Electives	<u>0-3</u>
Total Hours		42

Medical Physics Specialization Courses:

- ENU 5658 Image Analysis with Medical Physics Applications
(3)
- ENU 6937 Advanced Diagnostic Imaging (3)
- ENU 6937 Advanced Radiation Therapy Physics (3)
Magnetic Resonance Imaging (3)

*BME 5002 Anatomy & Physiology for Engineers I, or another Anatomy/Physiology
(course may be substituted with the agreement of the student's academic advisor)