

## Academic Plan for Health Physics

(MS Degree – Prerequisites Satisfied)

FIRST FALL SEMESTER		Credits
ENU 5615	Radiation Detection & Instrumentation <sup>(1)</sup>	3
ENU 5615L	Radiation Detection & Instrumentation Lab <sup>(1)</sup>	1
ENU 6051	Radiation Interaction Basics & Applications I	3
ENU 6905	Supervised Research	1
ENU 6935	Graduate Colloquium	<u>1</u>
Total:		9
FIRST SPRING SEMESTER		
ENU 6636	Medical Radiation Protection	3
ENU 6623	Radiation Dosimetry HP Elective <sup>(2)</sup>	3
Total:		<u>3</u> 9
FIRST SUMMER SEMESTER		
STA 6166	Statistical Methods in Research I	3
	General Technical Elective <sup>(2)</sup>	3
	Thesis Research	<u>3</u>
Total:		9
SECOND FALL SEMESTER		
ENU 5626	Radiation Biology	3
BME 5001	Anatomy and Physiology for Engineers I <sup>(3)</sup> HP Elective <sup>(2)</sup>	3
Total:		<u>3</u> 9
SECOND SPRING SEMESTER		
	HP Elective <sup>(2)</sup>	3
	Project/Thesis Research and/or HP Electives	<u>3-6</u>
Total:		6-9
Minimum Total Hours		42

- Note: (1) Students having taken ENU 4612/4612L may substitute other technical electives  
 (2) Electives must be approved by the academic / research advisor (see below)  
 (3) Other anatomy and/or physiology courses may be considered with approval of advisor

### Suggested Electives:

ENU 6053	Radiation Interaction Basics & Applications II
ENU 6937	Monte Carlo Methods
ENU 5142	Reliability and Risk Analysis for Nuclear Facilities
ENU 6106	Nuclear Reactor Analysis I
ENU 6107	Nuclear Reactor Analysis II
ENV 5105	Advanced Pollutant Transport
ENV 6116	Air Pollution Sampling and Analysis
ENV 6117	Industrial and Occupational Air Sampling and Analysis
ENV 6130	Aerosol Mechanics
ENV 6146	Atmospheric Dispersion Modeling
ENV 6335	Hazardous Waste Management
ENU 5658	Image Analysis with MP Applications
ENU 6061	Survey of Medical Radiological Physics
ENU 6627	Therapeutic Radiological Physics
ENU 6657	Diagnostic Radiological Physics
ENU 6659	Nuclear Medicine Instrumentation
ENU 6637	Advanced Therapeutic Radiological Physics
ENU 6637	Advanced Diagnostic Radiological Physics