

MASTER OF SCIENCE IN RADIOLOGICAL HEALTH SCIENCES, PLAN B, HEALTH PHYSICS SPECIALIZATION

A well-written, comprehensive, and scholarly professional paper prepared on a topic approved by the student's graduate committee that is successfully defended in an oral examination.

¹ ERHS 555, ERHS 563 and ERHS 570 may only be used from the list if they have NOT been previously selected for the preceding requirements.

² Elective course must be approved by the student's graduate committee.

Requirements Effective Fall 2021

Code	Title	Credits
ERHS 530	Radiological Physics and Dosimetry I	3
ERHS 531	Nuclear Instruments and Measurements	2
ERHS 550	Principles of Radiation Biology	3-5
or ERHS 450	Introduction to Radiation Biology	
ERHS 561	Radiation Public Health	2
ERHS 563	Environmental Contaminant Modeling I	2
or ERHS 570	Radioecology	
ERHS 630	Radiological Physics and Dosimetry II	3
ERHS 632	Techniques in Radiation Dosimetry	1
ERHS 665	Radiochemistry	3
ERHS 693D	Research Seminar: Health Physics	1
ERHS 786	Practicum	3
Select one of the following courses:		3-4
ERHS 544/ STAT 544	Biostatistical Methods for Quantitative Data	
ERHS 555	Quantitative Methods for Radiation Safety	
STAR 511	Design and Data Analysis for Researchers I	
Select at least 3 credits from the following:		3
ERHS 446	Environmental Toxicology	
ERHS 502	Fundamentals of Toxicology	
ERHS 515	Non-Ionizing Radiation Safety	
ERHS 520	Environmental and Occupational Health Issues	
ERHS 526	Industrial Hygiene	
ERHS 527	Industrial Hygiene Laboratory	
ERHS 555	Quantitative Methods for Radiation Safety ¹	
ERHS 563	Environmental Contaminant Modeling I ¹	
ERHS 565	Chemical and Biological Warfare Agents	
ERHS 570	Radioecology ¹	
ERHS 698	Research	
ERHS 726	Aerosols and Environmental Health	
STAR 512	Design and Data Analysis for Researchers II	
STAT 547/ CIVE 547	Statistics for Environmental Monitoring	
Elective		
500-level or greater elective ²		3
Program Total Credits:		32-35