

PH.D. IN RADIOLOGICAL HEALTH SCIENCES

The Ph.D. in Radiological Health Sciences focuses on the study of radiation and its effects on humans, society, and the environment. Areas of emphasis include cancer research and the role of ionizing radiation in inducing, diagnosing, and treating cancer, radiation biology, health physics, radioecology and radiochemistry. The core curriculum provides a comprehensive background in the radiation and radiological sciences, enhanced by elective offerings in the department. The program is designed to support the development of students into independent scientists and to prepare them for careers in industry, government, and academia.

Requirements Effective Fall 2021

Code	Title	Credits
ERHS 550	Principles of Radiation Biology ¹	5
ERHS 751	Advanced Radiation Biology I	3
ERHS 770	Radiation/Cancer Biology-Comparative Oncology ²	4
STAR 511	Design and Data Analysis for Researchers I	4
STAR 512	Design and Data Analysis for Researchers II	4
ERHS 799	Dissertation	12-18
Select one of the following courses:		3
ERHS 530	Radiological Physics and Dosimetry I	
ERHS 712	Physics of Diagnostic Imaging	
ERHS 714	Radiation Therapy Physics	
Electives (500-level or above) ^{3,4}		31-37
Program Total Credits:		72

A minimum of 72 credits are required to complete this program.

¹ ERHS 551A, ERHS 551B, or ERHS 551C may be substituted.

² Take in four semesters for a total of 4 credits.

³ Electives must be approved by the student's advisor and graduate committee.

⁴ Students may apply an earned Master's degree for up to 30 credits toward the PhD requirements.