

# MASTER OF HEALTH PHYSICS

Designed primarily for working professional health physicists in government, medicine, research, and industry, this program combines technical depth with the interdisciplinary viewpoints of leadership, management, and communications. The degree can be completed in four semesters and two summer sessions of part-time study. Applicants must have completed coursework in calculus through differential equations and a calculus-based general physics sequence. A course in modern physics, including some basic quantum mechanics, is strongly recommended. A comprehensive examination is required for the degree.

This program is also available on the web, and at televised viewing sites throughout the Chicago area. Students should consult [online.iit.edu](http://online.iit.edu) for more information.

## Curriculum

<b>Required Courses</b>		<b>(31)</b>
PHYS 561	Radiation Biophysics	3
PHYS 571	Radiation Physics	3
PHYS 572	Introduction to Health Physics	3
PHYS 573	Standards, Statutes and Regulations	3
PHYS 575	Case Studies in Health Physics	3
PHYS 576	Radiation Dosimetry	3
PHYS 770	Instrumentation for Health Physics	3
Select a minimum of two courses from the following:		6
CHEM 513	Statistics for Analytical Chemists	3
SCI 511	Project Management	3
SCI 522	Public Engagement for Scientists	3
Select a minimum of two courses from the following:		4
PHYS 566	Environmental Health Physics	2
PHYS 574	Introduction to the Nuclear Fuel Cycle	2
PHYS 577	Operational Health Physics	2
PHYS 578	Medical Health Physics	2
<b>Total Credit Hours</b>		<b>31</b>

## Master of Health Physics with Specialization in Radiochemistry

<b>Required Courses</b>			(24)
PHYS 561	Radiation Biophysics	3	
PHYS 571	Radiation Physics	3	
PHYS 573	Standards, Statutes and Regulations	3	
PHYS 575	Case Studies in Health Physics	3	
PHYS 580	Introduction to Radiochemistry	3	
PHYS 581	Radiochemistry Laboratory	3	
PHYS 582	Applications of Radiochemistry	3	
PHYS 770	Instrumentation for Health Physics	3	
<b>Health Physics Elective</b>			(2-3)
Select a minimum of one course from the following:			2-3
CHEM 509 or PHYS 539	Physical Methods of Characterization	3	
CHEM 512	Spectroscopic Methods II	2	
PHYS 574	Introduction to the Nuclear Fuel Cycle	2	
<b>Non-Radiochemistry Electives</b>			(6)
Select a minimum of two courses from the following:			6
CHEM 513	Statistics for Analytical Chemists	3	
SCI 511 or INTM 511	Project Management Industrial Leadership	3	
SCI 522	Public Engagement for Scientists	3	

**Minimum degree credits required: 32**