PURDUE UNIVERSITY

Health Physics
Ph.D. in Health Physics
College of Health and Human Sciences

HP-MS
Fall 2024
90 Credits

Requirements (32+ credits)

_____	(3)	F	HSCI 31200 Radiation Science Fundamentals^
_____	(2)	Sp	HSCI 51400 Radiation Instrumentation Laboratory
_____	(3)	Sp	HSCI 51500 Introduction to Nuclear and Radiological Source Security
_____	(3)	F	HSCI 52600 Principles of Health Physics & Dosimetry
_____	(3)	Sp	HSCI 53400 Applied Health Physics
_____	(3)	Sp	HSCI 54000 Radiation Biology
_____	(2)	F	HSCI 57400 Medical Health Physics
_____	(1)	Sp	HSCI 61300 Professionalism and Professional Development in Health Sciences AND CITI Responsible Conduct of Research (RCR) training OR GRAD 61200 Responsible Conduct Of Research (F, Sp)
_____	(1)	F	HSCI 62500 Grant Writing for Health Sciences
_____	(1)	F,Sp	HSCI 69600 Graduate Seminar*
_____	(1)	F,Sp	HSCI 69600 Graduate Seminar*
_____	(6+)	F,Sp,Su	HSCI 69900 Doctoral Thesis Research
_____	(3)		_____Statistics Selective – *select from list*

Electives (4-7 Credits)

_____ ( )_____ _____ ( ) _____ _____ ( ) _____

F=Fall, Sp=Spring, Su=Summer
*All students are required to take HSCI 69600 for credit twice and for 0 credit all remaining fall and spring semesters.
^HSCI 312– Radiation Science Fundamentals is required only for students who have not had equivalent previous coursework.

A minimum of 24 coursework credit hours with no more than 6 credit hours at the 300 or 400 level is required for the M.S. degree. The student's advisory committee may approve alternative coursework in a plan of study that will assist the student in their research, including independent study projects under the guidance of a faculty member.

A total of 90 hours is required for the Ph.D. degree. These residency hours may be any combination of course credit hours or research credit hours. Up to 30 hours may be credited for an M.S. degree upon recommendation of the Ph.D. graduate student's advisory committee and this may include all required coursework and the clinical internship if the equivalent has recently been taken. No more than 6 credit hours of coursework at the 300 or 400 level is allowed to form part of the student's Ph.D. degree plan of study.

Note: Graduate courses taken while registered as a graduate student at Purdue University may be considered for fulfilling the plan of study requirements only if the student has received grades of C or better. For courses at the 300 or 400 level taken as a graduate student or courses that represent either undergraduate or graduate excess credit or transfer credit, grades of B or better are required for fulfilling plan of study requirements.

Suggested Statistics Selectives

____	(3)	Sp	HSCI 52500 Statistics for Health Sciences
____	(3)	F,Sp,Su	STAT 51100 Statistical Methods
____	(3)	F,Sp,Su	STAT 51200 Applied Regression Analysis

Suggested Electives

____	(2)	F	HSCI 31300 Principles of Radiation Detection & Measurement **– Recommended**
____	(3)	Sp	HSCI 52000 Risk Assessment In Environmental Health
____	(2)	Sp	HSCI 54400 Exposure Assessment In OEHS
____	(4-5)	Sp	HSCI 54600 Industrial Hygiene Engineering Control
____	(3)	F	HSCI 54700 Fundamentals of Epidemiology
____	(3-4)	Sp	HSCI 54800 Industrial Hygiene Instrumentation Techniques
____	(3)	Sp	HSCI 55100 Physical Agents in Environmental Health
____	(3)	F	HSCI 55200 Introduction to Aerosol Science
____	(3)	F	HSCI 56000 Toxicology
____	(3)	F,Sp,Su	HSCI 69000 Industry Internship
____	(3)	F	NUCL 50100 Nuclear Engineering Principles
____	(3)	Sp	NRES 38001 Hazardous Waste Handling

Suggested Arrangement of Courses:

Fall 1st year:

Credits	Course Name
1	GRAD 61200
3	HSCI 31200
1	HSCI 69600
3	HSCI 69900
3	NUCL 50100
12	

Spring 1st year:

Credits	Course Name
2	HSCI 51400
3	HSCI 51500
3	HSCI 54000
1	HSCI 69600
3	HSCI 69900
3	Statistics Selective
15	

Summer 1st year:

Credits	Course Name
8	HSCI 69900

Fall 2nd year:

Credits	Course Name
3	HSCI 52600
2	HSCI 57400
0	HSCI 69600
3	HSCI 69900
1	HSCI 62500
9	

Spring 2nd year:

Credits	Course Name
3	HSCI 53400
1	HSCI 61300
0	HSCI 69600
4	HSCI 69900
8	

Future semesters:

Credits	Course Name
8	HSCI 69900