Health Physics (Radiation Protection) Graduate Program
Ph.D. in Health Physics

Ph.D. Recommended Plan of Study (90 credits required)

Fall Semester

(1) GRAD 612 - Responsible Conduct in Research*
(3) HSCI 312 - Radiation Science Fundamentals^
(3) HSCI 515 - Introduction to Nuclear and Radiological Source Security*
(2) HSCI 574 - Medical Health Physics*
(0) HSCI 696 - Graduate Seminar*
(3) NUCL 501 - Nuclear Engineering Principles
(3) STAT 511 - Statistical Methods* ♣

Spring Semester

(1) HSCI 514 - Radiation Instrumentation Laboratory*
(3) HSCI 526 - Principles of HP & Dosimetry*
(3) HSCI 534 - Applied Health Physics*
(3) HSCI 540 - Radiation Biology*
(3) HSCI 551 - Physical Agents in Environmental Health
(1) HSCI 696 - Graduate Seminar*

Summer Semester

(6) HSCI 699 – Doctoral Thesis Research

* - required course
♣ - STAT 512 – Applied Regression Analysis may be substituted for STAT 511
^ - 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. Required courses are indicated by the symbol *, other courses are suggested. The student's advisory committee may approve alternative coursework in a plan of study that will assist the student in their thesis research, including independent study projects under the guidance of a faculty member. Completion of a dissertation is a major requirement for this degree, and it is expected that at least two to three scholarly publications are produced from research results.

A total of 90 residency 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.