

Master of Science in Health Physics Degree Requirements

The Master of Science degree in Health Physics is divided into two specializations:

- Environmental Health Physics
- Medical Physics

All Master of Science students in the Health Physics program require a minimum of 40 credits to satisfy the degree requirements.

The curriculum consists of core health physics courses, which must be taken by all students in the M.S. program, as well as elective courses in each specialization area. The course requirements will be established during a scheduled consultation with the student's advisor in accordance with the Department of Health Physics and Graduate College policy and shall include:

Health Physics Program Core Courses (27 credits)

- HPS 602 – Radiation Detection
- HPS 603 – Radiation Physics and Instrumentation Laboratory
- HPS 611 (3 times) – Graduate Seminar
- HPS 701 – Applied Nuclear Physics
- HPS 703 – Radiation Interactions and Transport
- HPS 720 – Radiation Dosimetry
- HPS 730 – Advanced Radiation Biology
- HPS 796 (2 times) – Professional Paper or HPS 797 (2 times) - Thesis

Environmental Health Physics Core Courses (10 credits)

- HPS 616 – Advanced Health Physics
- HPS 670 – Environmental Health Physics
- HPS 718 – Radiochemistry Laboratory
- HPS 719 – Introduction to Radioanalytical Chemistry

Environmental Health Physics Elective Courses (7 - 12 credits)

- HPS 750 – Radiation Risk Assessment
- HPS 760 – Environmental Restoration and Radioactive Waste Management
- HPS 795 – Independent Study

Medical Physics Core Courses (13 credits)

- HPS 740 – Medical Imaging Physics
- HPS 740L – Diagnostic Medical Physics Clinical Rotation laboratory
- HPS 742 – Radiation Therapy Physics
- HPS 742L – Therapy Physics Clinical Rotation and Lab
- HPS 795 – Independent Study