

# MEDICAL PHYSICS - M.S.

---

The M.S. in Medical Physics program will provide training for individuals interested in pursuing a career in Medical Physics. The 43 hour Master's program will provide didactic training in the fundamentals of medical and health physics, radiobiology, radiological physics and radiation dosimetry, nuclear medicine, medical imaging, as well as research (Thesis required) and clinical experience (clinical rotations in local hospitals) to provide the experience needed by practicing medical physicists.

## M.S., Medical Physics Degree requirements (43 credits)

Code	Title	Credits
PHY 565	Radiation Biophysics	3
PHY 566	Physics of Medical Imaging I	3
PHY 567	Physics of Medical Imaging II	3
PHY 531	Quantum Mechanics	3
PHY 551	Mathematical Physics	3
or PHY 553	Computational Physics	
PHY 561	Nuclear Physics	3
PHY 562	Nuclear Instruments And Methods	2
PHY 661	Physics of Radiation Therapy	3
PHY 662	Radiation Dosimetry and Protection	3
PHY 792	Medical Physics Seminar (take twice)	2
PHY 797	Directed Independent Research (take twice for total of 6 credits)	6
PHY 798	Medical Physics Clinical Rotation	3
PHY 799	Master's Thesis (or PHY 500-level or above)	6
Total Credits		43

<sup>1</sup> If a student does not wish to complete a Master's Thesis, they can choose to take 6 credits of Graduate Physics Elective Courses (PHY 500-, 600-, 700-level) at the discretion of the graduate program director.