

# MEDICAL PHYSICS: ACCELERATED PROGRAM, MS

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirementstext>) and policies (<https://guide.wisc.edu/graduate/#policiestext>), in addition to the program requirements listed below.

### NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	Yes

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

Requirement Detail	
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	16 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ( <a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a> ).

Overall	3.00 GPA required.
Graduate GPA Requirement	Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> ( <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a> ).
Other Grade Requirements	n/a
Assessments and Examinations	n/a
Language Requirements	No language requirements.

### REQUIRED COURSES

The Medical Physics MS: Accelerated Program is a non-thesis option designed specifically for students seeking a terminal master's degree with the goal of becoming a board-certified clinical medical physicist. This named option is Commission on Accreditation of Medical Physics Education Programs (CAMPEP) accredited.

Visiting International Student Program (VISP) students should consult the program for details on completing coursework.

Code	Title	Credits
<b>Core</b>		
MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry	3
MED PHYS/ B M E 573	Mathematical Methods in Medical Physics	3
MED PHYS 510	Fundamentals of Cellular, Molecular, and Radiation Biology	3
MED PHYS 701	Ethics and the responsible conduct of research and practice of Medical Physics	1
MED PHYS/ B M E 566	Physics of Radiotherapy	3
MED PHYS/ B M E 578	Non-Ionizing Diagnostic Imaging	4
MED PHYS/ B M E 580	The Physics of Medical Imaging with Ionizing Radiation	4
MED PHYS/N E 569	Health Physics and Biological Effects	3
MED PHYS 671	Selected Topics in Medical Physics (Topic: Anatomy and Physiology)	2
<b>Elective</b>		
Select one of the following courses:		3
MED PHYS 674	Data Science in Medical Physics	
MED PHYS/ PHYSICS 688	Radiation Production and Detection	
MED PHYS 679	Radiation Physics Metrology	
MED PHYS 770	Advanced Brachytherapy Physics	
MED PHYS 772	Advanced Radiation Treatment Planning	
<b>Lab</b>		
Select one of the following lab courses:		1
MED PHYS 581	Laboratory for Medical Imaging with Ionizing Radiation	

MED PHYS 662	Rad Lab - Diagnostic Radiological Physics
MED PHYS 663	Rad Lab - Nuclear Medicine Physics
MED PHYS 664	Rad Lab - Health Physics
MED PHYS 665	Rad Lab - CT, MRI, and DSA Physics
MED PHYS 666	Rad Lab - Medical Ultrasound Physics
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<b>Total Credits</b>	<b>30</b>

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.