

# MASTER OF SCIENCE IN PHYSICS

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## Curriculum

Comprehensive examination

Thesis and defense (optional)

Students interested in the thesis option must complete six to nine credit hours of PHYS 591 or PHYS 691.

### Master of Science in Physics (Coursework Only Option)

Code	Title	Credit Hours
<b>Required Courses</b>		<b>(18)</b>
PHYS 501	Methods of Theoretical Physics I	3
PHYS 505	Electromagnetic Theory	3
PHYS 508	Analytical Dynamics	3
PHYS 509	Quantum Theory I <sup>1</sup>	3
PHYS 510	Quantum Theory II	3
PHYS 515	Statistical Mechanics	3
<b>Colloquium Requirement</b>		<b>(0-2)</b>
Two semesters of colloquium coursework is required.		0-2
PHYS 585	Physics Colloquium (may be taken multiple times)	1
PHYS 685	Physics Colloquium (may be taken multiple times)	0
<b>Electives</b>		<b>(9-14)</b>
Select 9-14 credit hours		9-14

Minimum degree credits required: 32

### Master of Science in Physics (Thesis Option)

Code	Title	Credit Hours
<b>Required Courses</b>		<b>(18)</b>
PHYS 501	Methods of Theoretical Physics I	3
PHYS 505	Electromagnetic Theory	3
PHYS 508	Analytical Dynamics	3
PHYS 509	Quantum Theory I <sup>1</sup>	3
PHYS 510	Quantum Theory II	3
PHYS 515	Statistical Mechanics	3
<b>Colloquium Requirement</b>		<b>(0-2)</b>
Two semesters of colloquium coursework is required.		0-2
PHYS 585	Physics Colloquium (may be taken multiple times)	1
PHYS 685	Physics Colloquium (may be taken multiple times)	0
<b>Thesis Research</b>		<b>(6-9)</b>
PHYS 591	Research and Thesis M.S.	6-9
or PHYS 691	Research and Thesis Ph.D.	
<b>Electives</b>		<b>(0-8)</b>
Select zero to eight credit hours		0-8

Minimum degree credits required: 32

<sup>1</sup> The six-credit hour course sequence PHYS 405 and PHYS 406 may be substituted for PHYS 509 with adviser and departmental approval.