

PHYSICS - DOCTOR OF PHILOSOPHY

For the Ph.D. degree, students must also pass the doctoral comprehensive examination, carry out original research, complete a dissertation, and pass a final oral examination. They must also pass or transfer at least 36 credits in formal courses numbered above 500 in physics/geophysics, including 24 credits of core graduate courses, and complete at least 6 credits of formal courses numbered above 600. The total number of credits, including formal and informal course credits and a minimum of 18 dissertation credits, must be at least 72. Financial support is available to graduate students in physics through teaching and research assistantships and fellowships. Inquiries about these opportunities should be directed to the graduate program director.

Requirements

Prefix	Title	Credits
Core Courses		
PHYS 511	Mathematical Methods of Physics I	3
PHYS 551	Classical Mechanics	3
PHYS 554	Quantum Mechanics I	3
PHYS 555	Quantum Mechanics II	3
PHYS 561	Electromagnetic Theory I	3
PHYS 562	Electromagnetic Theory II	3
PHYS 576	Advanced Computational Physics I	3
PHYS 584	Statistical Mechanics	3
Select 3 credits from the following:		3
PHYS 571	Advanced Experimental Optics	
PHYS 575	Advanced Physics Laboratory	
PHYS 593	Advanced Experimental Nuclear Physics	
Total Credits		27