

Physics (MS)

Master of Science Degree Requirements

Thesis (Option A) Requirements

Code	Title	Hours
Letter-Graded Courses		24
Select six PY 500-level / 700-level courses approved in conjunction with the academic committee ¹		
Research Course		6
PY 695	Master's Thesis Research (Optional)	
Total Hours		30

Non-Thesis (Option B) Requirements

Code	Title	Hours
Letter-Graded Courses		18
Select six PY 500-level / 700-level courses approved in conjunction with the academic committee ^{1,2}		
Department Qualifying Exam		12
Students must pass a Department Qualifying Exam from the following courses:		
PY 721	Statistical Physics I	
PY 782	Quantum Mechanics II	
PY 783	Advanced Classical Mechanics I	
PY 785	Advanced Electricity and Magnetism I	
Total Hours		30

¹ Excludes: PY 501 Quantum Physics I, PY 511 Mechanics I, and PY 514 Electromagnetism I.

² Students may opt to select a minor, by which three graded courses from other departments will be accepted as determined in conjunction with the academic committee.

Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

Faculty

Harald Ade
 David E. Aspnes
 Robert J. Beichner
 Jerzy Bernholc
 John Michael Blondin
 John D. Brown
 Laura I. Clarke
 Karen E. Daniels
 William L. Ditto
 Daniel B. Dougherty
 Carla Frohlich
 Robert Golub
 Kenan Gundogdu
 Hans D. Hallen
 Paul R. Huffman
 Chueng Ryong Ji
 James P. Kneller
 Gail C. McLaughlin
 Lubos Mitas
 Robert Riehn
 Christopher M. Roland
 Maria C. Sagui
 Thomas M. Schaefer
 John E. Thomas
 Mithat Unsal
 Keith R. Weninger
 Albert R. Young
 Matthew Piron Green
 Alexander Kemper
 Divine Philip Kumah
 Shuang Fang Lim
 Richard Leigh Longland
 Hong Wang
 Julio Monti Belmonte

Rongmon Bordoloi

Mary Williard Elting

Sebastian Konig

Sharonda Leblanc

Katherine Jean Mack

Vladimir Skokov

Dali Sun

Jason Russell Bochinski

Kazimierz Borkowski

Abay Dinku

Daniel Jacob Doucette

Brand Irving Fortner

Keith Heyward

Parminder Kaur

John H. Kelley

Hayen Leendert

Kent Leung

Wenchang Lu

Vijaya Mehta

Zodiac T. Webster

Ruth W. Chabay

Kwong T. Chung

James W. Cook Jr.

Stephen R. Cotanch

William Robert Davis

Donald C. Ellison

Raymond Earl Fornes

Christopher Robert Gould

David G. Haase

Karen L. Johnston

Fred Lado Jr.

Jacqueline Krim

George W. Parker III

Richard R. Patty

Stephen Reynolds

Phillip J. Stiles

Associate Professor

Ian Roederer

Assistant Professors

Weijian Chen

Raja Ghosh

Xingcheng Lin

Ruijuan Xu

Teaching Professor

Aaron Titus

Teaching Assistant Professors

Maya Kinley-Hanlon

Kasey Wagoner

Lecturer

Federico Portillo Chaves