

Mechanical Engineering (MS)

Degree Requirements

Non-Thesis Option

Code	Title	Hours	Counts towards
Required Courses		27	
Select a minimum of nine 500-level to 700-level courses approved in conjunction with the academic committee *			
Project Course		3	
MAE 586	Project Work In Mechanical and Aerospace Engineering		
Total Hours		30	

Thesis Option

Code	Title	Hours	Counts towards
Required Courses		21	
Select a minimum of seven 500-level to 700-level courses approved in conjunction with the academic committee *			
Research Course		9	
MAE 695	Master's Thesis Research		
Total Hours		30	

* "Required Courses" may include up to three non-MAE courses approved by the Director of Graduate Programs.

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

Full Professors

Gregory D. Buckner
 Tarek Echehki
 Tasnim Hassan
 He Huang
 Jack Ray Edwards Jr
 Srinath Ekkad
 Tiegang Fang
 Ashok Gopalarathnam
 Richard David Gould
 Xiaoning Jiang
 Richard F. Keltie
 Clement Kleinstreuer
 Andrey Valerevich Kuznetsov
 Hong Luo
 Kevin M. Lyons
 Gracious Ngaile
 Kara Jo Peters
 Afsaneh Rabiei
 Lawrence M. Silverberg
 Juei Feng Tu
 Fen Wu
 Fuh-Gwo Yuan
 Yong Zhu
 Mohammed A. Zikry

Associate Professors

Matthew Bryant
 Jeffrey W. Eischen
 Scott M. Ferguson
 Charles Edward Hall Jr.
 Hsiao-Ying Shadow Huang
 Andre P. Mazzoleni
 Venkat Narayanaswamy

Brendan O'Connor

Katherine Saul

Alexei V. Saveliev

Rohan A. Shirwalker

Hooman Vahedi Tafreshi

Christopher R. Vermillion

Cheryl Xu

Larry H. Royster

Ronald O. Scattergood

Furman Y. Sorrell Jr.

John S. Strenkowski

Carl F. Zorowski

Lecturer

Steven Berg

Assistant Professors

Landon Grace

Kenneth Granlund

Timothy Joseph Horn

Arun Kumar Kota

Jun Liu

Marie Muller

Mark R. Pankow

Jason F. Patrick

Jong Eun Ryu

Pramod K. V. Subbareddy

Jie Yin

Practice/Research/Teaching Professors

Stephen D. Terry

Emeritus Faculty

John A. Bailey

Herbert Martin Eckerlin

Francis J. Hale

Franklin D. Hart

Hassan A. Hassan

Thomas H. Hodgson

Richard R. Johnson

David S. McRae

James C. Mulligan

Robert T. Nagel