

Mechanical Engineering (MS)

Degree Requirements

Non-Thesis Option

Code	Title	Hours
Required Courses *		27
Select a minimum of 18 credits (6 courses) of 500-level to 700-level MAE courses		
Select a maximum of 9 credits (3 courses) of non-MAE or MAE technical elective courses approved by the Director of Graduate Programs		
Project Course		3
MAE 586	Project Work In Mechanical and Aerospace Engineering	
Total Hours		30

Thesis Option

Code	Title	Hours
Required Courses *		21
Select a minimum of 12 credits (4 courses) of 500-level to 700-level MAE courses		
Select a maximum of 9 credits (3 courses) of non-MAE or MAE technical elective courses approved by the Director of Graduate Programs		
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
Farhan Saifuddin Gandhi
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

Nitin Sharma

Rohan A. Shirwalkar

Hooman Vahedi Tafreshi

Christopher R. Vermillion

Cheryl Xu

Assistant Professors

James Braun

Darius Carter

Mingtai Chen

Chuyi Chen

Curtis Congreve

Landon Grace

Kenneth Granlund

Veeraraghava Raju Hasti

Mohammad Heiranian

Timothy Joseph Horn

Arun Kumar Kota

Donggun Lee

Jun Liu

Seyed Mehran Mirramezani

Marie Muller

Mark R. Pankow

Jason F. Patrick

Jong Eun Ryu

Pramod K. V. Subbareddy

Jie Yin

Lecturers

Steven Berg

William Gregory Eades

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

Larry H. Royster

Ronald O. Scattergood

Furman Y. Sorrell Jr.

John S. Strenkowski

Carl F. Zorowski

Practice/Research/Teaching Professor

Stephen D. Terry
