

# Aerospace Engineering (MS)

## Master of Science Degree Requirements

### Non-Thesis Option

| Code   | Title  | Hours     | Counts towards |
|--|--|-----------|----------------|
| <b>Required Courses *</b>  |  | <b>27</b> |                |
| 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 |  |           |                |
| <b>Project Course</b>  |  | <b>3</b>  |                |
| MAE 586  | Project Work In Mechanical and Aerospace Engineering |           |                |
| <b>Total Hours</b>   |  | <b>30</b> |                |

### Thesis Option

| Code  | Title                    | Hours     | Counts towards |
|---|--------------------------|-----------|----------------|
| <b>Required Courses *</b>   |                          | <b>21</b> |                |
| Select a minimum of 12 credits (4 courses) of 500-level to 700-level MAE courses  |                          |           |                |
| Select 9 credits (3 courses) of non-MAE or MAE technical elective courses approved by the Director of Graduate Programs |                          |           |                |
| <b>Research Course</b>  |                          | <b>9</b>  |                |
| MAE 695   | Master's Thesis Research |           |                |
| <b>Total Hours</b>  |                          | <b>30</b> |                |

\* "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 Varadarajan Ekkad  
Tiegang Fang  
Ashok Gopalarathnam  
Richard David Gould  
Xiaoning Jiang  
Richard F. Keltie  
Clement Kleinstreuer  
Andrey Valerevich Kuznetsov  
James Woodrow Leach  
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

Michael A. Boles  
Matthew Bryant  
Jeffrey W. Eischen

Scott M. Ferguson

Su Hao

Charles Edward Hall Jr.

Hsiao-Ying Shadow Huang

Andre P. Mazzoleni

Marie Muller

Venkateswaran Narayanaswamy

Brendan Timothy O'Connor

Mark R. Pankow

Katherine Saul

Alexei V. Saveliev

Rohan A. Shirwalker

Hooman Vahedi Tafreshi

Christopher Raymond Vermillion

Chengying Xu

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## Assistant Professors

James Braun

Darius Carter

Mingtai Chen

Chuyi Chen

Curtis Congreve

Landon Grace

Kenneth Granlund

Veeraraghava Raju Hasti

Mohammad Heiranian

Timothy Joseph Horn

Jingjie Hu

Arun Kumar Kota

Andrew Jeungahn Lee

Donggun Lee

Jaemin Lee

Jun Liu

Seyed Mehran Mirramezani

Mark Moretto

Laura Paquin

Jason F. Patrick

Susmita Sarkar

Pramod Kumar Veera Subbareddy

Henry Oliver Tenadooah Ware

Chi-An Yi

Jie Yin

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## Teaching Associate Professor

Felix Ewere

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## Emeritus Faculty

Thomas A. Dow

Herbert Martin Eckerlin

Hassan A. Hassan

David S. McRae

Robert T. Nagel

John S. Strenkowski