# Aerospace Engineering (MS)

## Master of Science Degree Requirements

### Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select a minimum of nine 500-level to 700-level courses approved in conjunction with the academic committee</td>
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<tr>
<td></td>
<td>Project Course</td>
<td>3</td>
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</tr>
<tr>
<td>MAE 586</td>
<td>Project Work In Mechanical and Aerospace Engineering</td>
<td></td>
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</tr>
</tbody>
</table>

Total Hours 30

### Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td>21</td>
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<tr>
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<td>Select a minimum of seven 500-level to 700-level courses approved in conjunction with the academic committee</td>
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<tr>
<td></td>
<td>Research Course</td>
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<tr>
<td>MAE 695</td>
<td>Master's Thesis Research</td>
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</tr>
</tbody>
</table>

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 Echekki
- Farhan Salfuddin Gandhi
- Tasnim Hassan
- He Huang
- 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

Emeritus Faculty
Thomas A. Dow
Herbert Martin Eckerlin
Hassan A. Hassan
David S. McRae
Robert T. Nagel
John S. Strenkowski

Assistant Professors
James Braun
Darius Carter
Mingtai Chen
Chuyi Chen
Landon Grace
Kenneth Granlund
Veeraraghava Raju Hasti
Mohammad Heiranian
Timothy Joseph Horn
Jingjie Hu
Arun Kumar Kota
Andrew Jeungahn Lee
Donggun Lee
Jun Liu
Jason F. Patrick
Pramod Kumar Veera Subbareddy
Henry Oliver Tenadooaah Ware
Chi-An Yi
Jie Yin