## Aerospace Engineering (PhD)

### Degree Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
<td>39</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select a minimum of thirteen 500-level to 700-level courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Minor Courses (Optional)</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Minor Courses&quot; are approved in conjunction with the academic committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Research Courses</strong></td>
<td>24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAE 895</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doctoral Dissertation Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>72</td>
<td></td>
</tr>
</tbody>
</table>

1. "Required Courses" must consist a minimum of two 700-level courses, and may consist of up to five non-MAE courses approved in conjunction with the academic committee.

2. "Minor Courses" are limited to 500-level and 700-level courses only

### Additional Requirements

- Students with a previous MS degree from NCSU:
  - without minor – may transfer up to 18 credit hours
  - with minor – may transfer up to 30 credit hours

- Students with a previous MS from outside NCSU:
  - without minor – may transfer up to 18 credit hours
  - with minor – may transfer up to 18 credit hours

### Faculty

#### Full Professors
- Gregory D. Buckner
- Tarek Echekki
- Tasnim Hassan
- He Huang
- Srinath Varadarajan Ekkad
- Tiegang Fang
- Ashok Gopalarathnam
- Richard David Gould
- Xiaoning Jiang
- Richard F. Keltie
- Clement Kleinstreuer

### 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

### Assistant Professors
- Landon Grace
Kenneth Granlund
Timothy Joseph Horn
Jingjie Hu
Arun Kumar Kota
Andrew Jeungahn Lee
Jun Liu
Jason F. Patrick
Pramod Kumar Veera Subbareddy
Henry Oliver Tenadooaah Ware
Chi-An Yi
Jie Yin

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