Electrical Engineering (MS)

Master of Science Degree Requirements

Degrees earned will be distributed as: “Master of Science in Electrical Engineering” without specialty or option specifications.

<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></td>
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</tr>
<tr>
<td>ECE 600</td>
<td>ECE Graduate Orientation</td>
<td>1</td>
<td></td>
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<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td></td>
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<tr>
<td></td>
<td>&quot;Core Courses&quot; are approved in conjunction with the academic committee</td>
<td>21</td>
<td></td>
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<tr>
<td></td>
<td><strong>Depth Courses</strong></td>
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<tr>
<td></td>
<td>Select at least three credit hours of 700-level courses</td>
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<td></td>
<td><strong>Major Courses</strong></td>
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<tr>
<td></td>
<td>Select at least 15 credit hours of EE courses</td>
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<td></td>
<td><strong>Breadth Course</strong></td>
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<tr>
<td></td>
<td>Select at least three credit hours in different ECE specialities</td>
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</tr>
<tr>
<td></td>
<td><strong>Additional Courses</strong></td>
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<tr>
<td></td>
<td>&quot;Additional Courses&quot; are approved in conjunction with the academic committee to meet 31 total hours</td>
<td>9</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Students are only allowed three credit hours of ECE 633, ECE 634, ECE 650, ECE 695 (for Thesis students).

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
- David E Aspnes
- B. Jayant Baliga
- Mesut E. Baran
- Salah M. A. Bedair
- Subhashish Bhattacharya
- Donald L. Bitzer
- Alper Yusuf Bozkurt
- Gregory T Byrd
- Rada Yuryevna Chirkova
- Mo-Yuen Chow
- Huaiyu Dai
- William Rhett Davis
- Alexandra Duel-Hallen
- Michael James Escuti
- Do Young Eun
- Brian Allan Floyd
- Paul D. Franzon
- Edward F. Gehringer
- John J. Grainger
- Edward Grant
- Robert Wendell Heath
- Brian L Hughes
- Iqbal Husain
- Ki Wook Kim
- Frederick Anthony Kish Jr.
- Robert Michael Kolbas
- Hamid Krim
- Ning Lu
- Srdjan Miodrag Lukic
- Leda Lunardi
- Thomas Kenan Miller III
- Veena Misra
- Rainer Frank Mueller
John F. Muth
H. Troy Nagle Jr.
Jagdish Narayan
Arne Nilsson
Omer Oralkan
Mehmet Cevdet Ozturk
Harilaos George Perros
Douglas Stephen Reeves
Eric Rotenberg
Georgios Rouskas
Xipeng Shen
Mihail Lorin Sichitiu
Zlatko Sitar
Matthias F. M. Stallmann
Daniel D. Stancil
Michael B. Steer
J. K. Townsend
James Tuck
Daryoosh Vashaee
John Victor Veliadis
Ioannis Viniotis
Mladen Alan Vouk
Wenyie Wang
Jonathan Wierer
Fen Wu
Huiyang Zhou

Khaled Abdel Hamid Harfoush
Michael W. Kudenov
David S. Lalush
Edgar Lobaton
Zeljko Pantic
Nuria Gonzalez Prelcic
David Ricketts
Nitin Sharma
Cranos M. Williams

Assistant Professors
Aydin Aysu
Amay Jairaj Bandodkar
Michael Daniele
Demirty Farfurnik
Caterina M. Gallippi
Yaoyao Jia
Shih-Chun Lin
Yuan Liu
Spyridon Pavlidis
Bradley Galloway Reaves
Muhammad Shahzad
Wenyuan Tang
Chau-Wai Wong
Tianfu Wu
Kaixiong Zhou

Associate Professors
Jacob James Adams
Dror Zeev Baron
Michela Becchi
Aranya Chakraborty
Hantao Cui
Alexander G. Dean
Ismail Guvenc

Practice/Research/Teaching Professors
Jordan Besnoff
Gregory Edward Bottomley
Laura J Bottomley
James Paul Dieffenderfer
Robert Joseph Evans
John Gajda
Rachana Ashok Gupta
Seth E. Hollar
Douglas C. Hopkins
Fu-Chen Hsiao
Andrew J. Rindos III
Steven D. Jackson
Robert Dwight Oden Jr.
Bongmook Lee
David Lee Lubkeman
Hatice Orun Ozturk
Tania Milkova Paskova
James Lee Reynolds
Elena Nicolescu Veety
Leonard Wilson White
Donna G Yu
Wensong Yu

Professors Emeritus
George F. Bland
John R. Hauser
Wilbur Carroll Peterson
Winser E. Alexander PhD
Tildon H Glisson Jr
Michael A. Littlejohn
Carlton M. Osburn
Sarah Ann Rajala
Wesley E. Snyder

Adjunct Faculty
Mihail Devetsikiotis
Yan Solihin

Teaching Associate Professors
Mihail Cutitaru
Frederick J. Livingston