Computer Engineering

Admission to the M.S. program requires a B.S. in electrical engineering, computer engineering or computer science, and an overall undergraduate GPA of at least 3.0. For non-native English speakers, the minimum acceptable TOEFL score for admission to the M.S. program is 90 (minimum 18 in each area, with minimum of 19 on Speaking). The GRE is required for all programs of study but may be waived upon request for graduates from US Universities (see below). Admission is further limited by available room in the elected program of study. Meeting the above minimum requirements alone does not guarantee admission.

Admission to the Ph.D. program requires a B.S. or M.S. in electrical engineering, computer engineering or computer science with an overall undergraduate GPA of at least 3.25. The minimum acceptable GRE percentile scores are 70 percentile verbal, 90 percentile quantitative, and 50 percentile analytical or writing. GRE scores for students who are graduates from NCSU may be waived. They also might be waived for graduates from US ABET accredited programs with good GPAs.

All international applicants from non English speaking countries must submit TOEFL scores. The TOEFL must have been taken within two years of the date of anticipated admission. On the TOEFL iBT, students must have a minimum of 18 on each section of the test with a minimum total of 90. Scores on previous versions of the TOEFL are considered with the same qualitative standard. On the IELTS, we require a minimum score of 6.5 in each section. This requirement also applies to US citizens whose principal language of instruction has not been English (for example, most applicants from Puerto Rico and the Virgin Islands).

GRE scores within the last four years of the date of anticipated admission. Guideline for minimal GRE percentile scores are 70 percentile verbal, 90 percentile quantitative, and 50 percentile analytical or writing. GRE scores for students who are graduates from NCSU may be waived. They also might be waived for graduates from US ABET accredited programs with good GPAs.

Admission to the Ph.D. program requires a B.S. or M.S. in electrical engineering, computer engineering or computer science with an expectation of an overall GPA of at least 3.25. The minimum acceptable TOEFL score for admission to the Ph.D. program is 90 (minimum 18 in each area, with minimum of 19 on Speaking). The GRE is required for all programs of study but might be waived for NCSU graduates or graduates from other US ABET accredited schools with good GPAs. Admission is further limited by available room in the elected program of study, and meeting the minimum requirements as given above does not guarantee admission.

Admissions Requirements

GRE - institution code 5496; department code 1203
TOEFL - institution code 5496; department code 66

Approximately 54 credit hours are required beyond the M.S. degree or 72 credit hours beyond the B.S. degree. For those with an NCSU MS degree in another department, 6 credit hours are required in our department. For those with a non NCSU MS degree, 12 credit hours of coursework are required. For those with only a Bachelors degree 30 credit hours of coursework are required. The remaining credit hours are research.

The department wishes to evaluate a Ph.D. student's research potential as quickly as possible. Consequently, all Ph.D. students are required to pass a qualifying review before the end of their third semester of study. This review is based on the student’s academic performance to date and the results of a project with one of their committee members. Results are presented to the committee in both written and oral form. Based on this review, the committee will decide if the student may continue in the Ph.D. program.

Student Financial Support

The department offers financial support to qualified students in the form of teaching assistantships, research assistantships, and fellowships. These sources of support generally include coverage of tuition and fees.

Degrees

- Computer Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-ms/)
- Computer Engineering (MS): Internship Concentration (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-ms-internship-concentration/)
- Computer Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-phd/)
- Computer Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-minor/)
- Computer Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-certificate/)

Faculty

Full Professors

B. Jayant Baliga
Mesut E. Baran
Salah M. A. Bedair
Subhashish Bhattacharya
Alper Yusuf Bozkurt
Gregory T. Byrd
Rada Yuryevna Chirkova
Mo-Yuen Chow
Huiyu Dai
William Rhett Davis
Alexandra Duel-Hallen
Michael James Escuti
Do Young Eun
Brian Allan Floyd
Paul D. Franzon
John J. Grainger
Edward Grant
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.
Arne Nilsson
Omer Oralhan
Mehmet Cevdet Ozturk
Harilaos George Perros
Douglas Stephen Reeves
Eric Rotenberg
Mihail Lorin Sichitiu
Daniel D. Stancil
Michael B. Steer
J K Townsend
James Tuck
Daryoosh Vashaee
John Victor Veliadis
Ioannis Viniotis
Wenyue Wang
Huiyang Zhou

Associate Professors
Jacob James Adams
Samuel T. Alexander
Amay Jairaj Bandodkar
Dror Zeev Baron
Michela Becchi
Aranya Chakrabortty
Alexander G. Dean
Ismail Guvenc
Khaled Abdel Hamid Harfoush
Michael W. Kudenov
Edgar Lobaton
Zeljko Pantic
David Ricketts
Cranos M. Williams
Chengying Xu

Assistant Professors
Aydin Aysu
Michael Daniele
Yaoyao Jia
Shih-Chun Lin
Spyridon Pavlidis
Bradley Galloway Reaves
Muhammad Shahzad
Wenyuan Tang
Chau-Wai Wong

Tianfu Wu

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**Practice/Research/Teaching Professors**

Gregory Edward Bottomley

Laura J. Bottomley

James Paul Dieffenderfer

Robert Joseph Evans

Douglas C. Hopkins

Steven Wade Hunter

Steven D. Jackson

Bongmook Lee

David Lee Lubkeman

Robert Dwight Oden Jr.

Hatice Orun Ozturk

Veety, Elena Nicolescu

Tania Milkova Paskova

Andrew J. Rindos III

Elena Nicolescu Veety

Leonard Wilson White

Donna G. Yu

Wensong Yu

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**Emeritus Faculty**

Winser E. Alexander

George F. Bland

David H. Covington

Tildon H. Glisson Jr.

John R. Hauser

Michael A. Littlejohn

David Franklin McAllister

Carlton M. Osburn

Wilbur Carroll Peterson

Sarah Ann Rajala

Wesley E. Snyder