Department of
Electrical and Computer Engineering

Graduate Program Guidelines

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Professor Dennis Sullivan
Graduate Coordinator

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Department Chair

2. GRADUATE DEGREES OFFERED

The Department of Electrical and Computer Engineering offers three graduate degrees in electrical engineering: Master of Engineering (MEngrEE), Master of Science (MSEE), and Doctor of Philosophy (PhDEE) and two graduate degrees in computer engineering: Master of Engineering (MECompE) and Master of Science (MSComp7(e)11.1(i.7(n)1.9(e))Tj -0.02 Tc 0.009 Tw -42.87 -1l.8(ti(()8(g)12.6n:1())-28.88e-4.1( )10.1(R)1.1h11.5C)16.M10

Physics	PHYS 211, 212
Statistics	STAT 301

3. Demonstrated proficiency in at least three of the following junior level background study courses:

   ECE 319 Electronics (lab not required)
   ECE 329 Electrical Machines (lab not required)
   ECE 339 Electromagnetic Theory
   ECE 349 Digital Computer Fundamentals
   ECE 359 Signals and Systems Analysis

4. Two 400's level courses as prescribed by the student's committee.

With respect to making up deficiencies, the prospective student should be aware that:

Physics	PHYS 211, 212
Statistics	STAT 301

3. At least two advanced courses in electrical engineering, computer engineering, or computer science.

Students with undergraduate course deficiencies in any of the foundation areas of computer engineering must remove these deficiencies either prior to admission or in the first three semesters of graduate work. Such deficiency courses cannot be used for graduate credit.

	If a change is made, student does this online in the degree audit planner.	

Graduate Handbook for Theses & Dissertation

	met; file form, Report of Preliminary Examination and Advancement to Candidacy.	
Application for Degree (commencement excuse)	Student and major professor certify requirements completed or will do so by completion of current registration. Student applies online at the Registrar's website. You must notify graduate dean if you will not be participating in commencement.	Date appears on the graduation page of the Registrar's website.
Final Semester Registration	Student must register for dissertation credit during the semester of expected defense.	Date appears in the academic calendar of the Registrar's website.
Request to Proceed with Dissertation	Student will present the graduate college with the form by this name signed by the committee.	Must be filed with the Request to Proceed with Final Defense form of graduate college at least 10 working days before the scheduled defense.
Final Defense Report	Issued by the graduate college on receipt of the Request to Proceed with Final Defense.	To be taken to final defense for completion and returned to the graduate college following the defense. Due date for results appears in the academic calendar on the Registrar's website.

committee may also conduct an oral examination on topics relevant to the ME degree, as the committee deems appropriate.

The subject matter for the presentation must be a technical topic relevant to the student's course of study and must be approved by the major professor. A literature search and bibliography are required, as part of the preparation for the presentation, and a brief written summary plus the bibliography must be submitted to the major professor for review prior to the presentation. Appropriate technical topics for the presentation may be suggested by the student's course work, such as exploring a course topic in greater depth than was covered in class, or investigating a related topic in the literature.

5.2 Master of Science: The M.S. degree requires 30 credits beyond an approved bachelor's degree (six credits are usually taken in ECE 500, Master's Research and Thesis). At least 24 credits of course work must be taken in addition to thesis credits and 18 of the required 30 credits must be in courses numbered 500 and above (including the six credits of ECE 500, Master's Research and Thesis). Two or more electrical engineering courses numbered above 500 in a given area for depth and at least one course in each of two areas (outside the areas selected for depth) to provide breadth are required. Enrollment in ECE 591 Electrical Engineering Research Colloquium, during each semester of on-campus enrollment is also required. No written final exam is required for the M.S. degree. However, an oral examination covering the student's course work is frequently an integral part of the student's thesis presentation. One copy of the final master's thesis must be supplied to the Department of Electrical and Computer Engineering.

5.3 Doctor of Philosophy: The Doctor of Philosophy degree is awarded in recognition of high achievement in scholarly research activity. Admission to the doctoral program is granted only to those who have a recognized potential for completing the degree. Admission is also based on the student's prior academic performance, potential for doing research, personal recommendations, TOEFL and GRE scores, and availability of research faculty in the student's area of interest. Students interested in entering the Ph.D. program are encouraged to complete a master's program in engineering first.

Credit Requirements: A minimum of 78 credits beyond the bachelor's degree is required. At least 52 of these credits must be in courses numbered 500 and above. At least 39 of the 78 credits must be in courses other than ECE 600 (Doctoral Research and Dissertation). Normally 18 to 30 credits are taken in ECE 600.