The Doctor of Philosophy in Computer Engineering offers students an opportunity for study in a broad range of areas in computer engineering. Details on PhD requirements can be found in the Graduate Program Guide. A summary of requirements is given below.

**Qualifying Exam and Degree Candidacy**

The PhD qualifying exam is the examination for admissions to the doctoral programs in electrical engineering and in computer engineering. The exam has the dual purposes of serving as an indicator of the student’s capability for successful completion of the PhD in electrical engineering or in computer engineering and of serving as a guide to the student's advisor in developing a suitable plan of study, tailored to the individual needs of the student.

A student who has matriculated into the PhD program is considered a predoctoral student, whether they are BS entry or advanced entry. Upon successful completion of the qualifying exam, the student is designated a PhD candidate. A student who fails the qualifying exam will be permitted to retake the exam only one more time.

**Annual Review**

PhD students are reviewed annually. Each student is evaluated and receives a grade of satisfactory, needs improvement, or unsatisfactory.

**Residence Requirement**

After reaching PhD candidacy, one year of full-time graduate work or two consecutive years of part-time graduate work satisfy the university residence requirement. In the latter case, the student's advisor must approve a detailed schedule in order to ensure that the student devotes at least half of the time to the requirements of the Graduate School of Engineering.

**Dissertation**

Within one year of passing the PhD qualifying exam, the PhD candidate must form a dissertation committee. A dissertation committee must have at least three members that hold a Ph.D or equivalent degree. At least two of the committee members must be tenured or tenure-track Department of Electrical and Computer Engineering faculty, and the committee must include the student’s advisor. The chair of the committee must be a tenured or tenure-track faculty member in the ECE department.

The dissertation committee must design an appropriate program of study that prepares the student to be a successful doctoral-level engineer as well as direct the candidate’s dissertation research. The dissertation committee will approve the dissertation in final form.

**DISSERTATION AND DISSERTATION CONTINUATION REGISTRATION**

Upon successful completion of the PhD qualifying exam and the required coursework, the PhD candidate must register in two consecutive semesters for Dissertation Term 1 (EECE 9990) and Dissertation Term 2 (EECE 9991). Upon completion of this sequence, the student must register for Dissertation Continuation (EECE 9996) in every semester until the dissertation is completed. A student may not register for Continuation until they fulfill the two-semester sequence of Dissertation.

**REGISTRATION REQUIREMENTS FOR PREDOCTORAL AND PHD CANDIDATE GRADUATE ASSISTANTS**

The ECE department requires that predoctoral students and PhD candidates who hold research or teaching assistantships be registered full-time. Predoctoral PhD students may register for Research (EECE 9986) (zero credit, full-time equivalent) if needed to fulfill the registration requirement.

**PHD PROPOSAL REVIEW**

Each PhD candidate must demonstrate, by means of the proposal review, subject matter knowledge satisfactory for the award of the degree.

The proposal review is an oral presentation followed by a question-and-answer session administered by the student’s dissertation advisor/committee. The proposal review will be given at the time the student submits their dissertation proposal to the dissertation advisor/committee for approval. As part of this exam, the dissertation advisor/committee will review the student’s doctoral program and their performance in graduate courses, as well as examine the student on subject matter related to their graduate coursework and dissertation subject area.

**FINAL DISSERTATION DEFENSE**

The final dissertation defense will include the subject matter of the dissertation and significant developments in the field of the dissertation work. Other related fields may be included if recommended by the examining faculty. The dissertation defense must be scheduled at least six months after the PhD proposal review.

**Program Requirements**

Complete all courses and requirements listed below unless otherwise indicated.

**Milestones**

Annual departmental review (each fall semester after the student has been in the program for at least one year)

Qualifying examination

Dissertation committee

Proposal stage review
Dissertation defense

**Core Requirements**

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<td>Complete 32 semester hours of approved coursework—equivalent of MSECE degree. Then complete 16 semester hours, of which 8 must be graduate-level EECE courses. Consult faculty research advisor for acceptable courses.</td>
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**Dissertation**

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<td>EECE 9991</td>
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**Program Credit/GPA Requirements**

48 total semester hours required
Minimum 3.000 GPA required

**Advanced Entry Program Requirements**

Complete all courses and requirements listed below unless otherwise indicated.

**Milestones**

Annual review (each fall semester after the student has been in the program for at least one year)
Qualifying examination
Dissertation committee
Proposal stage review
Dissertation defense

**Core Requirements**

Complete 16 semester hours of approved coursework. At least 8 semester hours must be graduate-level EECE courses. Consult your faculty adviser for acceptable courses.

**Dissertation**

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**Program Credit/GPA Requirements**

16 total semester hours required
Minimum 3.000 GPA required