## Ph.D. Program, International Program of Electrical Engineering and Computer Science(IEECS)

Course Map (Academic Year 2025)

## **Program Overview**

**Total: 32 Credits (14 Required + 18 Elective)** 

**Electrical Engineering** Power and Energy Control System **Power Electronics Communications Computer System** 

Electronic Engineering **Computer Engineering Communication and Signal Processing Electromagnetic Engineering Integrated Circuits and Systems** 

**Computer Science & Information Engineering** Software Engineering and Systems AI and Multimedia Systems **Information Security and Network Systems**  **Electro-Optical Engineering** 

**Optical Communications Display Technology Optical Engineering Optoelectronic Materials and Devices** 

## **▲** Required Courses







### First Year (Year 1)

# **Fall Semester Graduate Seminar** 1 credits Elective Course 3 credits

Elective Course

3 credits

**Spring Semester** 

**Graduate Seminar** 1 credits

> Elective Course 3 credits

Qualification Exam Preparation

### **Second Year (Year 2)**

### **Fall Semester**

Dissertation 3 credits

Elective Course 3 credits

Elective Course 3 credits

Dissertation 3 credits

**Spring Semester** 

Elective Course 3 credits

Qualification Exam If not completed

### Third Year (Year 3) & Beyond

### **Fall Semester**

Dissertation 3 credits

3 credits

Defense **Upon Completion** 

**Dissertation Oral** 

**Spring Semester** 

Dissertation

## **居 Research & Dissertation Phase** (Years 3-7)

Students continue dissertation research, writing, and defense preparation.

**Duration** varies based on research progress and dissertation complexity.

**S** Flexible Course Scheduling: The elective course arrangement shown

semesters based on:

(6+3+6+3+0+0) is just one example. Students

can distribute their 18 elective credits across

Course availability each semester

Personal academic planning

Research focus and interests

Advisor recommendations

## **©** Qualifying Examination Regulations

- **Schedule:** Held **once per semester** in May (Spring) and December (Fall) Application deadline: Within 2 weeks after the semester begins
- **Format: Written examination** covering two graduate-level courses from the EECS College full-time faculty Passing grade: ≥70/100 for each course
- Timeline: Must be completed within 3 **years** of entering the doctoral program in expulsion
- Retake Policy: Each subject can be taken **maximum twice** (initial attempt + 1 retake)
  - ↑ If failed twice on the same subject, must choose a different subject

## Important Notes List of Credits for Graduation

- Coursework Credits: 32 credits (14 Required + 18 Elective) typically completed in the first 2-3 years
- **Total Program Duration:** 2-7 years (coursework + research + dissertation)
- ▲ Required Courses (14 credits):
  - o Graduate Seminars: 2 credits (1+1) First and second semesters
  - Dissertation: 12 credits (3+3+3+3) Third through sixth semesters

### ★ Elective Courses (18 credits):

From doctoral-level courses in English from all departments of the EECS College. Courses for both doctoral and master students are considered doctoral-level.

- **Graduation Requirements:** 
  - Qualification Exam (timing varies by department, must complete within 3 years)
  - Dissertation Research (typically Years 3-7)
  - Dissertation Oral Defense
- Language Requirement: All courses must be taught in English (Chinese and English combined courses not included). Courses not taught in English need advisor approval.
- Inter-College Option: Up to 6 credits out of 18 can be obtained from inter-college master- and doctoral-level courses upon advisor approval.
- Additional Regulations: For requirements not specified here, follow the regulations of the advisor's department.