



## ECE 499 006

### FE Electrical and Computer Exam Preparation Class

Fall 2019

#### Start your journey to become a Professional Engineer!

PE licensure is the engineering profession's highest standard of competence, a symbol of achievement and assurance of quality. Your path to obtaining the valuable credential begins with successfully passing the Fundamentals of Engineering (FE) Exam.

The FE Electrical and Computer Exam preparation Class is designed based on NCEES' exam specifications. The course provides a review of 18 topics covered in NCEES FE Electrical and Computer Exam. Each session consists of a 45-minute lecture and a 30-minute problem-solving session.

**Instructor:** Liling Huang

**Course credit:** 0

**Term:** September 24 – December 3

**Class time:** Tuesday 5:55 PM – 7:10 PM

**Location:** ENGR 1107

**Online Session:** TBD

#### Topic outline

- Mathematics
- Probability and Statistics
- Ethics and Professional Practice
- Engineering Economics
- Properties of Electrical Materials
- Engineering Sciences
- Circuit Analysis
- Linear Systems
- Signal Processing
- Electronics
- Power
- Electromagnetics
- Control Systems
- Communications
- Computer Networks
- Digital Systems
- Computer Systems
- Software Development