Graduate Studies in Computer Engineering at UC Santa Cruz

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Computer Engineering BS/MS Program
Outline

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CE BS/MS Program: Introduction

- Allows motivated students to complete BOTH a BS and MS degree at UCSC.
- Duration: 5 years (depending on student’s progress).
- Advanced planning may allow completion with just SEVEN 5-unit graduate level courses and ONE 3-unit core course beyond the BS program.
How does it work?

- Students may use (at most) two 5-unit graduate level courses taken as undergraduates toward both the CE MS degree and BS degree provided the courses meet the degree requirements.

- NOTE: Students in the BS/MS Program may NOT apply undergraduate courses toward their CE MS degree.
Requirements

- Must maintain a **3.0 GPA or higher** until the completion of undergraduate requirements.

- Must have completed the **Base Requirements** for the Computer Engineering graduate program with a **3.0 GPA using courses taken at UCSC**.
CE MS BASE REQUIREMENTS

- Data Structures and Algorithms: CS101 or CS102 or CE177
- Computer Architecture: CE110
- Pick **ONE** additional course from the following:
  - Logic Design CE100/L
  - Circuits CE121/L or EE101
  - Software Systems CS104 or CS111 or CS115
THREE CORE COURSES:
CMPE 200 (3-units)
CMPS 201 (5-units)
CMPE 202 (5-units)

SEVEN 5-unit graduate level courses:
Course selection should form a coherent plan of study.

Students in the BS/MS Program may already have TWO graduate level courses completed at the undergraduate level!
GRADUATE LEVEL COURSES as Undergraduate

- Must be 5 units.
- Must be 200-series courses.
- To enroll in a graduate level courses you must request a permission code from the instructor directly.
- Check with your advisor to make sure the graduate level courses meet the undergraduate degree requirements.
GRADUATE LEVEL COURSES

- courses.soe.ucsc.edu/courses/cmpe

- Sample listing:
  CMPE 218/Mechatronics
  CMPE 221/Advanced Microprocessor Design
  CMPE 222/VSLI Digital System Design
  CMPE 241/Intro to Feedback Control Systems
  CMPE 242/Applied Feedback Control
  CMPE 245/Estimation and Introduction to Control of Stochastic Processes
  CMPE 246/Hybrid Dynamical Systems
  CMPE 252A/Computer Networks
  CMPE 257/Wireless and Mobile Networks
  CMPE 264/Image Analysis and Computer Vision
HOW TO APPLY?

1) Contact the **CE Graduate Student Advisor, Emily Gregg**, to discuss if you are eligible for the BS/MS Program.

2) If you are eligible, you will be added to the BS/MS Program internal tracking database.

3) Apply to the CE MS program Fall quarter **before** graduation through online graduate school application.

4) Once CE MS application submitted, you will be flagged as CE BS/MS applicant.
APPLICATION TIMELINE

- Fall 2016 CE MS applications open October 1, 2015.
- The application deadline is January 3, 2016.
- Deadlines are posted on-line: https://gradapp.ucsc.edu/start.html
GREAT NEWS!

Students in the BS/MS Program are NOT required to take the Graduate Record Examination (GRE) when applying to the CE MS program!
APPLICATION REQUIREMENTS

- 3 Letters of Recommendation
- Personal Statement
- Statement of Purpose
- Unofficial Transcripts
- See the SOE Admissions FAQ for more detailed information: https://ga.soe.ucsc.edu/admissions/faq
CE BS/MS Program

QUESTIONS?

More Information
@ SOE Graduate Advising

https://ga.soe.ucsc.edu