



CSE Department

# M.S. Degree Requirements

CSE MS Program

# Degree Plan Structure (CS + CE Majors)

## THESIS

- BREADTH (12)
- DEPTH (12)
- Electives (16)
- **THESIS CAPSTONE**

## COMPREHENSIVE

- BREADTH (12)
- DEPTH (12)
- Electives (16)
- **EXAM CAPSTONE**

# BREADTH

- **CS MAJORS** must take one course from each of the three areas.
- **CE MAJORS** must take two courses from Systems plus one course from either Theory or Applications.
- Courses must be taken **LETTER GRADE** + completed with **GRADE of B- or higher**

## THEORY

- 200 (Complexity)
- 201A (Advanced Complexity)
- 202 (Algorithms)
- 203A (Advanced Algorithms)
- 205A (Logic in CS)
- 207 (Cryptography)

## SYSTEMS

- 221 (Operating Systems)
- 222A (Computer Communication Networks)
- 231 (Compilers)
- 237A (Embedded Systems) or 237B (Embedded Software)
- 240A (Architecture)
- 241A (Computing Circuits) or 243A (VLSI CAD) or 244A

## APPLICATIONS

- 210 (Software Engineering)
- 216 (Human-Computer Interaction)
- 230 (Programming Languages)
- 232 (Databases)
- 250A (Artificial Intelligence) or 250B (Machine Learning)
- 252A (Vision I) or 252B (Vision II)
- 260 (Parallel Computation)
- 280A (Bioinformatics)

# DEPTH

- **CS MAJORS** may choose any depth area.
- **CE MAJORS** must choose courses from the Computer Engineering depth area ONLY
- Courses must be taken Graduate level + **LETTER GRADE**

## DEPTH AREAS

- Artificial Intelligence (CSE 250A-C, 253-258A, COGS 200, COGS 260)
- Bioinformatics (CSE 280A, 282, 283, MATH 283)
- **Computer Engineering (CSE 231, 237A-D, 240A-248, ECE 260A-C, ECE 284)**
- Computer Systems (CSE 221-228, 260-262)
- Database Systems (CSE 232, 232B, third course by petition)
- Graphics and Vision (CSE 252A, 252B, 252C, 272, 274)
- Human-Computer Interaction (CSE 170, 216, 218, 250A, COGS 220)
- Programming Languages, Compilers, and Software Engineering (CSE 210, 218, 230, 231)
- Theoretical Computer Science (CSE 200 -203, 205-208)

# ELECTIVES & CAPSTONE

## (CS + CE Majors)

### THESIS

- A minimum of 8 and maximum of 12 units of CSE 298 (Independent Research)
- Graduate level courses in CSE, ECE and Mathematics or Approved list posted online
- LETTER GRADE ONLY
- Seminar and teaching units may not count toward the Electives and Research requirement
- **THESIS CAPSTONE**

### COMPREHENSIVE

- Electives are chosen from graduate level courses in CSE, ECE, and Mathematics or Approved list posted online
- A maximum of four units of CSE 293 may be applied to the Electives
- LETTER GRADE ONLY
- Seminar and teaching units may not count toward the Electives and Research requirement
- **EXAM CAPSTONE**

# **COMPREHENSIVE: Interdisciplinary Option**

## **DEGREE = 48 UNITS**

BREADTH → Same Requirement (12)

DEPTH Primary ----> Same Requirement (12)

### **Secondary Depth (12):**

The 12 units of the secondary depth must be taken from only one area and approved by the MS committee: the Departments of **Cognitive Science, Electrical and Computer Engineering, Mechanical and Aerospace Engineering, Structural Engineering or the JSOE Management Courses.**

### **ELECTIVES AND RESEARCH (12 Units)**

Electives are chosen from graduate courses in CSE, ECE and Mathematics or Cognitive Science.

.A maximum of four units of CSE 293 may be applied.

Courses must be completed for a letter grade.

Seminar and teaching units may not count toward the Electives

**REMINDER:**

**ACADEMIC**

**Policies**

- **GRADUATE LEVEL (200+)**
- **LETTER GRADE (except for CSE 293 or 298)**
- **COURSES \*\* NOT\*\* BE DOUBLE-COUNTED**
- **BREADTH COURSES**  
—— completed with GRADE of B- or higher


## **UCSD Graduate Division**

### **Academic and Enrollment Policies**

- **Good Academic Standing  
(Minimum Cumulative 3.00  
Quarterly)**
  - **International Students must be  
enrolled in a minimum of 12  
units quarterly**
  - **All campus employment,  
including TAships & GSR appts,  
require 12 units quarterly**
  - **Campus Housing & Financial  
Aid also require 12 units  
quarterly**
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# Petition for Repetition of Courses

- A graduate student assigned a grade of D, F, or U only may petition to repeat the course on the same grading basis for which it was first taken.
  - Degree credit for the course will be given only once, but the grade assigned for each enrollment shall be permanently recorded.
  - Both the original grade and the grade received in the repetition will be used in calculating the overall GPA for the first 16 units repeated.
  - Petition must be submitted to the Graduate Division for approval **prior** to enrollment in course to be repeated
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# Curriculum FAQs

- What if I want to Switch from CS > CE ....or CE >CS?

**Graduate Division will permit students to petition in winter quarter given that good academic standing was achieved in fall quarter.**

- What if I want to take two CSE 291 courses for electives ...will they both count? Is CSE 291 a lecture course (4 units).

**Yes, ONLY if the course topics are different!!! CSE 291's are lecture courses (4 units each)**

- Is there a list of approved electives? **M.S. Faculty Committee update electives list ONLINE**

## Academic Integrity

**\*\*** Mandatory UCSD ONLINE Academic Integrity Training. UCSD places a hold on winter registration if the Academic Integrity training is not completed.

Take the Pledge

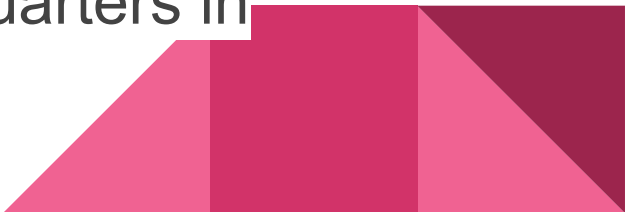
I pledge to excel with integrity by being honest, respectful, responsible, fair, trustworthy and courageous in my academic, research and professional work.



# Enrollment REMINDERS

- ADD / DROP /CHANGE **via WebReg** → FRIDAY OCTOBER 7 (week 2)
- Double-Check
  - CORRECT UNITS (4 Units Lecture)
  - CORRECT GRADE OPTION (Letter Grade)
- **CSE 298 -Thesis Research - Requires Faculty permission before enrollment. Please do not enroll in any faculty section without approval of that faculty advisor.**
- **CSE 293 - Project (4 units) - Requires Faculty permission before enrollment. Please do not enroll in any faculty section without approval of that faculty advisor. Units may not be divided (i.e, no less than 4 units)**

# Quarterly Workshops

- PROGRESS TO DEGREE
    - i. Advancing to Candidacy
    - ii. Thesis submission
    - iii. Timeline & Process for Degree Completion & Required Paperwork
  - Please attend Advising Sessions two quarters in advance!!!
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# Individual Meetings

- Applying to the PhD Program/Application Requirements
- LOA
- Half Time Status for Domestic Students
- Petitions for Transfer courses



# And..... Finally

Best wishes for an incredible academic year!

I will see you soon for group and individual appointments.

