



# MS Software Engineering Orientation Advising

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Dan Harkey

Director, MS Software Engineering  
Program



# Welcome to the MS Software Engineering Program

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- Where are you located?
  - MS Software Engineering Degree Program
  - Computer Engineering Department
  - College of Engineering
  - Graduate Studies
  - San Jose State University



# Where Do You Get Information?

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- Points of contact
  - San Jose State University
    - [www.sjsu.edu](http://www.sjsu.edu)
  - Graduate Studies
    - [www.sjsu.edu/gradstudies](http://www.sjsu.edu/gradstudies)
    - Graduate Student Services
  - College of Engineering
    - [www.engr.sjsu.edu](http://www.engr.sjsu.edu)
  - Computer Engineering Department
    - [www.engr.sjsu.edu/cmpe/](http://www.engr.sjsu.edu/cmpe/)
    - [cmpe@email.sjsu.edu](mailto:cmpe@email.sjsu.edu)
    - 408-924-4150
  - MS Software Engineering Degree Program
    - [www.ms.se.sjsu.edu](http://www.ms.se.sjsu.edu)
    - [Dan.Harkey@sjsu.edu](mailto:Dan.Harkey@sjsu.edu)
    - READ the program FAQ at [www.ms.se.sjsu.edu/faq.htm](http://www.ms.se.sjsu.edu/faq.htm)



# Getting Academic Advice

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- Today in orientation
- Throughout the semester at group advising sessions
  - See [www.ms.se.sjsu.edu/advising.htm](http://www.ms.se.sjsu.edu/advising.htm) for schedule
    - Most, but not all **Thursdays**, 4-5:30 pm, Room ENG 325
  - Group advising at beginning, breakout to individual advising at end as time permits
- Department
  - High level, general advice
  - Appointment with department chair (CPT, OPT, Disqualification, last resort)



# Getting Forms Processed

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- Most forms can be processed through the Computer Engineering Office (ENG 284) and do not require that you meet with an advisor
  - Visit <http://www.engr.sjsu.edu/cmpe/form/form.htm> for the process to submit forms to the Computer Engineering office.



# Non-Academic Advising

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- There are topics that are **not** appropriate for an academic advisor
  - Visas
  - Financial Aid
  - Residency
  - Housing
  - Other non-academic topics



# Registration and Curriculum

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- *YOU* pick the courses
  - 1st semester: Choose the courses you want to take
  - Register on-line ([my.sjsu.edu](http://my.sjsu.edu))
- Pay attention to fee payment deadlines
- Pay attention to Add/Drop Deadlines
  - Last Day to Drop Classes: February 4<sup>th</sup>
  - Last Day to Add Classes: February 11<sup>th</sup>



# MSSE Degree Requirements

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## 1. Degree Core (9 units)

- CMPE 272, 202, 203

## 2. Specialization Core (6 units)

- Enterprise Software Technologies (EST): CMPE 273, 275
- Software System Engineering (SSE): CMPE 285, 287
- Networking Software (NS): CMPE 206, 207

## 3. Electives (9 units)

- See pre-approved list on MSSE web site

## 4. Project or Thesis (6 units)

- CMPE 295A / 295B – **or** – CMPE 299

## 5. Technical Writing (3 units)

- CMPE 294

## 6. Professional Experience (0 to 6 units)

- CMPE 298I

See [www.ms.se.sjsu.edu](http://www.ms.se.sjsu.edu) for more detail



# Taking Classes

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- Take classes according to the following priority
  1. Prerequisite classes assigned at admission
  2. Degree core/Specialization core
  3. Electives
  4. Project or Thesis



# Conditional admission

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- Completing a Prerequisite Course
  - Enroll in and pass the course (B or better)  
(CMPE 180, section = course # minus 100,  
example: CMPE 138: CMPE 180 section 38)
- **OR** -
  - Take the challenge exam for the course
- Satisfy other conditions as stated in your admission letter
- You **must** complete your prerequisite courses **before** you take more than 9 graduate credits



# Prerequisite Classes

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Take prerequisite classes in this order:

1. Object-Oriented Language (CMPE 046 or Java Course)  
Math Prerequisite classes (Math 042)  
⇒ Complete before starting CMPE 272
2. Data Structures (CMPE 126 or CS 046B)  
Software Engineering (CMPE 131)  
⇒ Complete before starting CMPE 202
3. Database Systems (CMPE 138)  
Operating Systems (CMPE 142)  
⇒ Complete before starting specialization core

**Note:** CMPE 271 and undergraduate courses cannot be used for degree credit



# Challenging Prerequisite Classes

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- Contact the course instructor between 1/23 and 1/30
- You can take the challenge exam only once for each course



# Taking Prerequisite Classes

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- Register directly for Math 042, CMPE 271, and CS 046B
- For other courses, register for CMPE 180:

<i>Take CMPE 180</i>	<i>Instead of</i>	<i>Note</i>
Section 46	CMPE 046	Take 101 exam to challenge
Section 26	CMPE 126	Requires passing either CMPE 101 exam or CMPE 101 class. See Len Wesley to challenge.
Section 31	CMPE 131	See Jerry Gao to challenge
Section 38	CMPE 138	See Magda Erinaki to challenge
Section 42	CMPE 142	See Paul Nguyen to challenge



# Graduate Writing Assessment Requirement (GWAR)

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- Required of **all** students
- Usually satisfied by completing CMPE 294



# Graduate Writing Requirement

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- **All** graduate students in the Computer Engineering department must meet the graduate writing requirement in one of the following ways:
  - Met writing requirement as an undergraduate at a California State University
  - Sole author in professional publication\*
  - Completed technical writing course at another university\*\*
  - Complete CMPE 294 or ENGR 200W
  
- \* Requires approval by AVP Graduate Studies and Research
  
- \*\* Requires approval by COE Technical Communications Director and AVP Graduate Studies and Research

# Graduate Writing

## Requirement (*continued*)

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- Most Computer Engineering department students meet requirement by taking CMPE 294
- Students will be given an essay test during the first class meeting to determine if additional help is required
  - Students failing the essay test will have to concurrently take and pass ENGR 90W
  - Students with a passing Writing Skills Test (WST) score will not have to take the in class essay test



# Maintaining Good Standing

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- Students must maintain a GPA of 3.0 or above or they will go on probation
  - Once on probation, students must attain a GPA of *higher* than 3.0 in each subsequent semester or they will be disqualified



# Maintaining Active Student Status

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- Newly admitted students must take at least one class in the first semester
- Students will lose their active status if they do not take classes for two semesters
  - Requires reapplying to the university to regain active status
  - Students can file a Leave of Absence *prior* to the first semester of leave to avoid losing active status while on leave



# Internships

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- Students are expected to gain professional experience to prepare for and to support their culminating experience, e.g. by including 0-6 units of internship (CMPE 298I) to their program of study
- Some companies *require* course enrollment
  - Enroll in CMPE 298I (3 units)



# Internships (International students)

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- Highly recommended to enhance your culminating experience
- Can work on campus right away (TA, etc.)
- Max 20 hours/week during the semester, max 40 hours during the breaks (Summer, Winter)
- Take Curricular Practical Training (CPT) for each semester
  - Maximum **two (2)** CPTs allowed
- Enroll in CMPE 298I (3 units per semester)
  - Must be on program of study
- Maximum 6 units
- Prerequisite
  - F1 visa
  - 3.0 or better GPA
  - Completed all classification conditions
  - Completed two semesters at SJSU as a full-time student (9 units per semester)
- Can extend internships for up to 18 months after graduation (OPT)



# Curricular Practical Training (CPT)

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- Submit to Department Office
  - CMPE 298I form
  - Program of Studies form
  - Completed CPT form
  - Offer letter



# Culminating Experience

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- A student must take either of two plans to satisfy his/her culminating experience required for the degree
  - Plan A - CMPE 295A & CMPE 295B (project)
  - Plan B - CMPE 299A & CMPE 299B (thesis)
- A student should acquire professional experience (CMPE 298I) to enhance his/her culminating experience
- A student is allowed to take CMPE 295A or CMPE 299A if he/she:
  1. Is in good standing and is classified or able to reach classified status
  2. Has completed the degree core courses
  3. Has satisfied the GWAR
  4. Has completed two specialization core courses
- **NOTE: One** of the courses listed in items 2 and 3 above may be taken concurrently with CMPE 295A.



# Graduating

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- CMPE 295A or CMPE 299A
  - File Candidacy form
  
- CMPE 295B or CMPE 299B
  - File "Request for Award of Masters Degree" Form with graduate studies
  - File "Course Substitution" form if necessary



# Questions ...

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Read the FAQ at

<http://www.ms.se.sjsu.edu/FAQ.htm>

