CSCE advising orientation meeting for lower-division students

Fall 2012

Abbreviations and Resources

• Department: CSCE (Computer Science and Engineering)
  – Computer Science major: lower division (CPSL) and upper division (CPSC)
  – Computer Engineering major (CS track): lower division (CECL) and upper division (CECN)

• Department advising website
  – http://www.cse.tamu.edu/academics/undergraduate

• University undergraduate catalogs
  – http://catalog.tamu.edu/
Overview of session

- Computer Engineering major
- Computer Science major
- General considerations
CECN, continued

![Diagram showing course dependencies and electives]

CECN notes

- PHYS 208 can be taken at community colleges as PHYS 2426 (PHYS 219)
- MATH 308 cannot be taken at community colleges
- ECEN 248 should be taken as early as possible—the standard schedule has it before ECEN 214
- The semester you take ECEN 248 defines the minimum number of semesters remaining to completion of the degree
- CSCE 222 is taken before or with CSCE 221, not after
- CSCE 483 requires CSCE 462
- CSCE 481 should be taken in the junior year
CECN—upper division note

• ECEN upper division: 200 and above
  – Preregistration is allowed in ECEN upper division classes if course prerequisites are met BUT
  – Students not achieving upper division are DROPPED as the semester nears

• CSCE upper division: 300 and above
  – Students cannot register for upper division classes until admitted to upper division
  – Force requests at csnet.cse.tamu.edu
    • Leave room in schedule
    • Evaluation of requests over the semester break

• MATH does not appear to enforce upper division

CECN electives

• Engineering elective
  – Classes from other engineering departments than CSCE and ECEN
  – See list

• Area electives
  – 5 electives: 4 in tracks, 1 from any track (or approved electives)
  – Tracks: Communications and Networks; VLSI; Software Systems; Signal/Image Processing and Graphics; Robotics/Embedded Systems; Information
  – 2 courses from 2 tracks
  – More at end of presentation about the 5th elective
CPSC notes

- CSCE 222 is taken before or with CSCE 221
- CSCE upper division: 300 and above
  - Students cannot register for upper division classes until admitted to the upper division
  - Force requests at csnet.cse.tamu.edu
    - Leave room in schedule
    - Evaluation of requests over the semester break
- Take CSCE 481 in your junior year
**CPSC supporting area**

- 12 hours *outside* of Computer Science but related to computing; in a *single* area
- Requires approval of the advising office
- Generally includes 300 and 400 level courses
- If available, a minor should be completed
- Some commonly selected options include
  - Business minor
  - Additional math courses (251, both 304 and 308, 2 400 level courses)
  - Fine arts minor with traditional art
  - Foreign languages (12 hours)

**CPSC technical electives**

- 21 hours (7 courses)
- One course from each track: Algorithms and Theory (CSCE 411); Systems; Software; Information
  - CSCE 411 is an automatic selection for the Algorithms and Theory track
- Two more courses from one track
- Seventh course from any track (or other approved electives)
- More at end of presentation about other options for the *7th* elective
General notes: Degree evaluations

• Once you are upper division you can see degree evaluations in Howdy
• Also can do “what if” evaluations to see how your courses will be applied in upper division
• Some areas require manual filing of adjustments by the advising office, so will show as unfilled

General notes: More options for the “extra” technical/area elective

• Co-ops; ENGR 385; 1 hour
  – Requires approval of company and co-op coordinator (Dr. Sarin)
  – See Career Counseling Center to register for opportunity notifications
  – Similar to internships but with additional course requirements
• EPICS; ENGR 270/470 (1 hour for most students)
  – Engineering projects in Student Service; http://epics.tamu.edu/
• Independent study
  – Independent research: CSCE 491
  – See format for application at http://www.cse.tamu.edu/academics/undergraduate/ui_research.pdf
  – Also be aware of announcements for REU and USRG
Advising appointments

• Call 979-845-4087 for appointment with Dr. Furuta or Dr. Sarin
• File paperwork with Ms. Payton
• Office is 325 Teague