

Degree Requirements and Four-Year Plan
 Bachelor of Science in Computer Engineering (145 units)
 (Curriculum Effective Fall 2006) For Students Admitted Prior to Fall 2006
 Department of Computer Science and Engineering, UCSD

Name: _____ PID #: _____ Date: _____

College: _____ Qtr Admitted: _____ Estimated Qtr of Graduation: _____

Email: _____ Phone #: _____

Current Home Address: _____

Lower-Division Courses (21 courses = 73 units)
 Upper-Division Core Courses (13 courses = 48 units)
 Upper-Division Technical Electives (6 courses = 24 units)

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| <input type="checkbox"/> _____ Math 20A, Calculus <input type="checkbox"/> _____ Math 20B, Calculus <input type="checkbox"/> _____ Math 20C, Calc.& Analy Geometry <input type="checkbox"/> _____ Math 20D, Intro. Diff. Equations <input type="checkbox"/> _____ Math 20F, Linear Algebra <input type="checkbox"/> _____ Physics 2A, Mechanics <input type="checkbox"/> _____ Physics 2B, Electricity&Magnetism <input type="checkbox"/> _____ Physics 2C, Fluids, Waves, Therm. & Optics <input type="checkbox"/> _____ Physics 2D, Relativity & Quantum Physics <input type="checkbox"/> _____ Physics 2BL/2CL/2DL or ECE 65, Phys Lab or Components & Circuits Lab <input type="checkbox"/> _____ ECE 53A or 35, Intro. to Analog Design <input type="checkbox"/> _____ ECE 53B or 45, Circuits & Systems <input type="checkbox"/> _____ ECE 109, Engineering Prob. & Stats. <input type="checkbox"/> _____ CSE 91 (2 units), Perspectives in CSE <input type="checkbox"/> _____ CSE 8B/11, Intro. Programming Java <input type="checkbox"/> _____ CSE 12, Data Structures & OO Prog <input type="checkbox"/> _____ CSE 8B/11, Intro. Programming Java <input type="checkbox"/> _____ CSE 12, Data Structures & OO Prog. <input type="checkbox"/> _____ CSE 20/Math 15A, Intro. Discrete Math <input type="checkbox"/> _____ CSE 21/Math 15B, Math for Alg. & Systems | <input type="checkbox"/> _____ CSE 100/Math 176, Adv. Data Structures <input type="checkbox"/> _____ CSE 101/Math 188, Des&Analy. Algorithms <input type="checkbox"/> _____ CSE 105/Math 166, Theory of Computation <input type="checkbox"/> _____ CSE 120, Principles of Operating Systems <input type="checkbox"/> _____ CSE 130 or 131A, Prog. Lang: Principles/Paradigms <input type="checkbox"/> _____ CSE 131B or 131, Compiler Construction <input type="checkbox"/> _____ CSE 140, Components&Des TechDigital Sys <input type="checkbox"/> _____ CSE 140L, (2 units), Digital Sys. Lab <input type="checkbox"/> _____ CSE 141, Intr.Computer Architecture <input type="checkbox"/> _____ CSE 141 L, (2 units), Project Computer Arch <input type="checkbox"/> _____ ECE 101, Linear Systems Fundamentals <input type="checkbox"/> _____ ECE 102, Intro. to Active Circuit Design <input type="checkbox"/> _____ ECE 108, Digital Circuits <input type="checkbox"/> _____ ECE 171A or ECE 161A or ECE 65 <input type="checkbox"/> _____ Required T.E. (ECE 111 or ECE 118) <input type="checkbox"/> _____ CSE/ECE Tech Elective <input type="checkbox"/> _____ CSE/ECE Tech Elective <input type="checkbox"/> _____ CSE/ECE Tech Elective <input type="checkbox"/> _____ CSE/ECE Tech Elective <input type="checkbox"/> _____ Technical Elective |
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| YEAR | FALL | WINTER | SPRING |
|------------------|--|--|--|
| Freshman | CSE 91 (2 units) CSE 8A & CSE 8AL, or CSE 11 Math 20A General Education | CSE 12* CSE 20 or Math 15A Math 20B General Education | CSE 21 or Math 15B Phys 2A Math 20C General Education |
| Sophomore | CSE 30 Math 20D Phys 2B ECE 35 | CSE 100 or Math 176 Math 20F Phys 2C ECE 45 | CSE 140 CSE 140L Phys 2D ECE 65 or Phys Lab |
| Junior | CSE 141 CSE 141L (2 units) ECE 101 General Education | CSE 101 or Math 188 CSE 120 ECE 102 General Education | CSE 105 or Math 166 ECE 108 Required TE (ECE 111 or 118) General Education |
| Senior | CSE 130 or CSE 131A CSE/ECE Technical Elective Major Technical Elective General Education | CSE 131 or CSE 131B CSE/ECE Technical Elective CSE/ECE Technical Elective General Education | ECE 171A or 161A or 65 ECE 109 CSE/ECE Technical Elective General Education |

Comments: _____

RULES FOR SELECTING AND SCHEDULING CLASSES

(All courses must be taken for a letter grade)

These schedules are designed for students without advanced placement credit. It is imperative that each student draw up a suitable schedule based on her/his specific circumstances. To assist with planning your schedule consult the Schedule of Current Course Offerings found at <http://www-cse.ucsd.edu/undergrad/courses/currentcourse/currentcourses.html>. The Computer Engineering Degree has a linear systems focus (ECE 65 and ECE 101) and electronic circuits and systems focus (ECE 102 and ECE 108).

1. Perspectives in CSE: CSE 91 must be taken by all freshmen effective fall 2004. This course is normally offered in the fall and winter. Transfer students are exempt from this requirement.
2. First Programming Course: CSE 11 is a faster paced version of CSE 8A, CSE 8AL and CSE 8B. CSE 8B or CSE 11 must be taken before CSE 12.* Students may self-select which course they wish to take. Students without experience in programming in a compiled language are advised to take CSE 8A & CSE 8AL, and then CSE 8B, instead of CSE 11.
3. CSE 11, and CSE 20/Math 15A, can be taken in the same quarter. Please obtain department approval for enrollment permission at ugradinfo@cs.ucsd.edu.
4. Math 20A is a prerequisite for Physics 2A. Students whose performance on the Math Placement Exam permits them to start with Math 20B or higher may take Physics 2A in the fall quarter of their freshman year.
5. Effective Fall 2006, ECE 35 and ECE 45 are new courses for computer engineering courses. These courses replace ECE 35A and ECE 35B respectively.
6. Students may take ECE 65 in place of the Physics lab requirement and ECE 171A/161A requirement.

Upper Division Technical Electives (All courses must be taken for letter grade):

7. You must complete six technical electives. Four of your six technical electives must be CSE or ECE upper division courses. You may use either ECE 111 or ECE 118 to meet your technical elective design requirement. You must obtain approval to use a CSE graduate course for technical elective credit. Once a graduate course is used for an undergraduate degree that course may not be reused for a graduate degree. In addition, only 4 units of either a CSE 197, 198, or 199 may be used toward technical elective credit.
8. Two of the technical electives may be chosen from a list of approved electives. This list is at <http://www.cse.ucsd.edu/undergrad/degreeprograms/electives.html>. If you want to deviate from this list of approved electives, you must petition with CSE Student Advisor, contact ugradinfo@cs.ucsd.edu.

CSE Academic Advisors:

**(Students with last name A-L) Viera Kair, EBU3B 1236
858/822-1535, vkair@cs.ucsd.edu**

**(Students with last name M-Z) Patricia Raczka, EBU3B 1238
858/534-3621, raczka@cs.ucsd.edu**