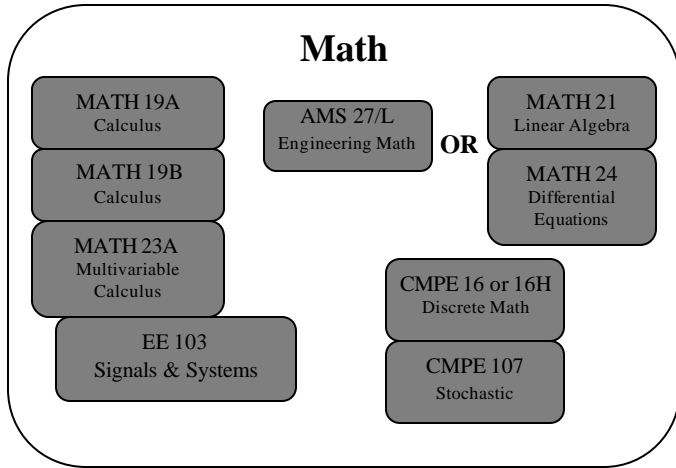
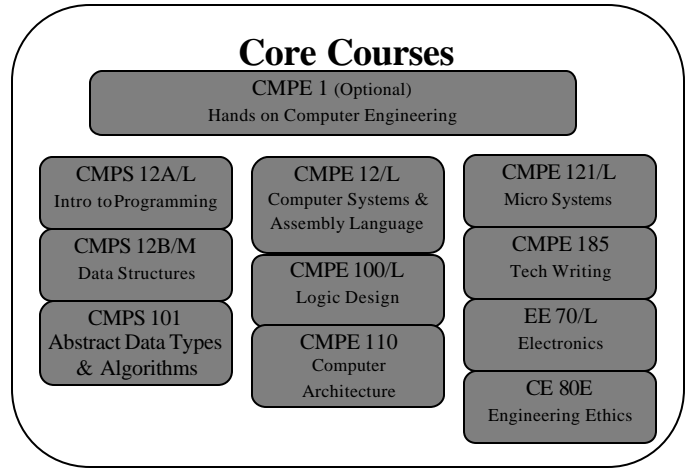


**UCSC Baskin School of Engineering
Computer Engineering BS Degree
Curriculum Chart
2005-2006**

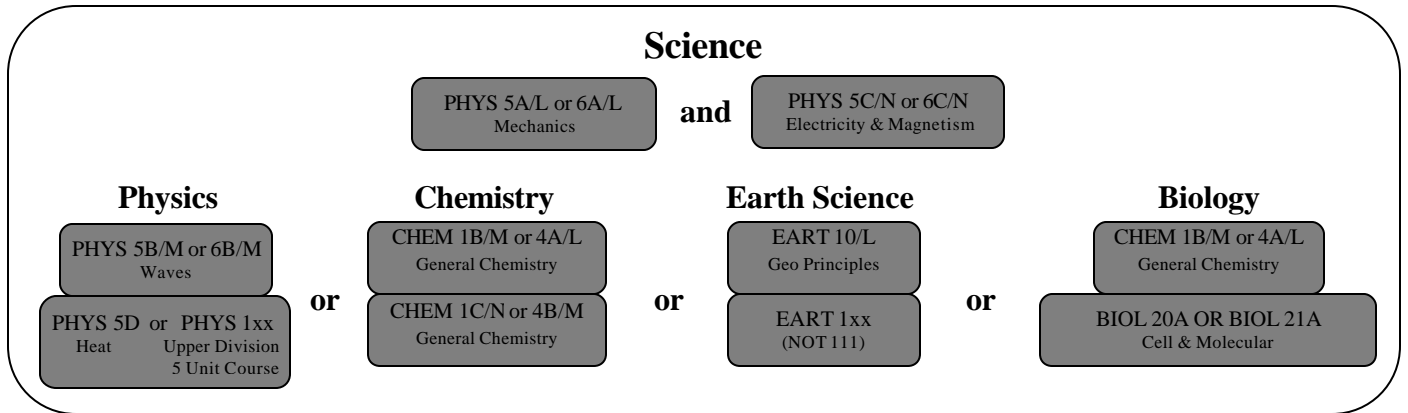
Math



Core Courses



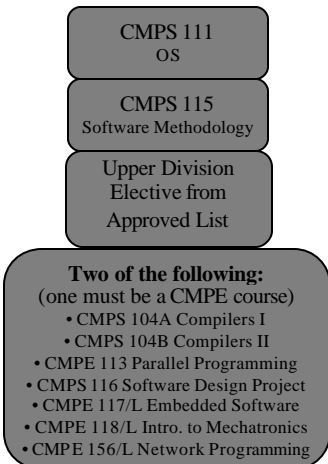
Science



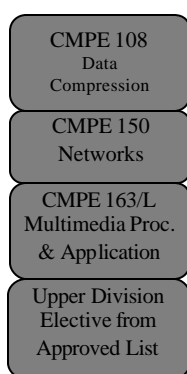
Concentrations

(choose one)

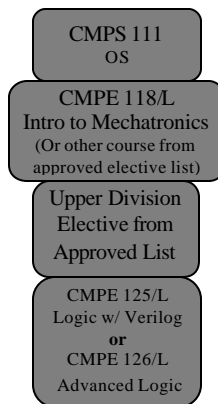
System Programming



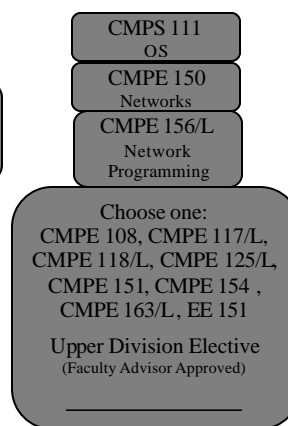
Multimedia



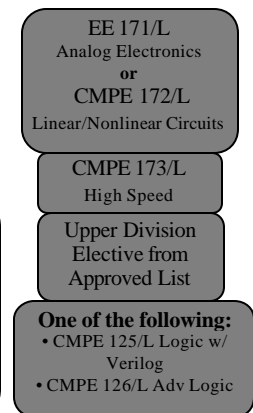
Computer Systems



Networks



Digital Hardware



Computer Engineering Design Project I:
CMPE 123A

Computer Engineering Design Project II:
CMPE 123B or CMPE 195: Senior Thesis

Project portfolio (3 projects and narrative
statement), exit survey, and interview

†EE 103 required for Multimedia and Networks Concentrations

* Admission: Complete at least 5 courses required for major to apply

UCSC BASKIN SCHOOL OF ENGINEERING
COMPUTER ENGINEERING BS
DEGREE CURRICULUM
2005-2006

| Fall _____ | Winter _____ | Spring _____ | Summer _____ |
|------------|--------------|--------------|--------------|
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| Fall _____ | Winter _____ | Spring _____ | Summer _____ |
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| Fall _____ | Winter _____ | Spring _____ | Summer _____ |
|------------|--------------|--------------|--------------|
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Approved List of Upper Division Electives

- | | | |
|--|---|---|
| <p>AMS 147 Computational Methods and Applic. AMS 162 Design and Anal of Comp Sim Expmnts CMPE 108 Data Compression CMPE 113 Parallel Programming CMPE 117/L Embedded Software CMPE 118/L Introduction to Mechatronics CMPE 125/L Logic Design with Verilog CMPE 126/L Adv. Logic Design CMPE 127 Comp.-Aided Synth. of VLSI CMPE 150 Intro. to Computer Networks CMPE 151 Network Administration CMPE 152 Analysis & Design Comm. Protocols CMPE 154 Data Communications CMPE 156/L Network Programming CMPE 163/L Multimedia Processing & Appl. CMPE 172/L Linear/Nonlin. Circuits CMPE 173/L High Speed Digital Design</p> | <p>CMPE 177 Applied graph Theory/Algor. CMPS 102 Analysis of Algorithms CMPS 104A Compiler Design I CMPS 104B Compiler Design II CMPS 109 Advanced Programming CMPS 111 Operating Systems CMPS 112 Comparative Prog. Langs. CMPS 115 Software Methodology CMPS 116 Software Design Project CMPS 122 Computer Security CMPS 128 Distributed Systems CMPS 129 Data Storage Systems CMPS 130 Computational Models CMPS 132 Computability and Compl CMPS 140 Artificial Intelligence CMPS 160/L Computer Graphics CMPS 161/L Visualization & Compt. Animation</p> | <p>CMPS 180 Database Systems CMPS 181 Database Systems II CMPS 183 Hypermedia and the Web CMPS 190X Methods of Cryptography EE 127 & 128 Interdis. System Design Project I/II EE 130/L Optoelectronics & Photonics EE 135/L Electro. Fields and Waves EE 136 Engr. Electromagnetics EE 145/L Properties of Materials EE 151 Communications Systems EE 153 Signal Processing EE 154 Feedback Control Systems EE 171/L Analog Electronics EE 178 Device Electronics ISM 206 Optimization Theory and Appl.</p> |
|--|---|---|

Any 5-Credit CS, CE, or EE Graduate Course: CMPE 265A & CMPE 265B Special Topics in Image Processing

At most, one elective may be substituted by an upper-division individual or field study (CMPE, CMPS, EE 193 or 198).

***Approved List of Ethics Courses:** CMPE 80E Engineering Ethics; PHIL 22 Intro to Ethical Theory: Contemporary Moral Issues; PHIL 24 Intro to Contemporary Ethics; PHIL 28 Environmental Ethics; BME 80G/PHIL80G/CHEM80G Bioethics in the 21st Century: Science, Business, and Society.

STUDENT'S NAME:

STAFF ADVISOR:

Watch for CEFULs: CE Faculty-Undergraduate Lunches, regularly scheduled throughout the year, CE's free lunch program.