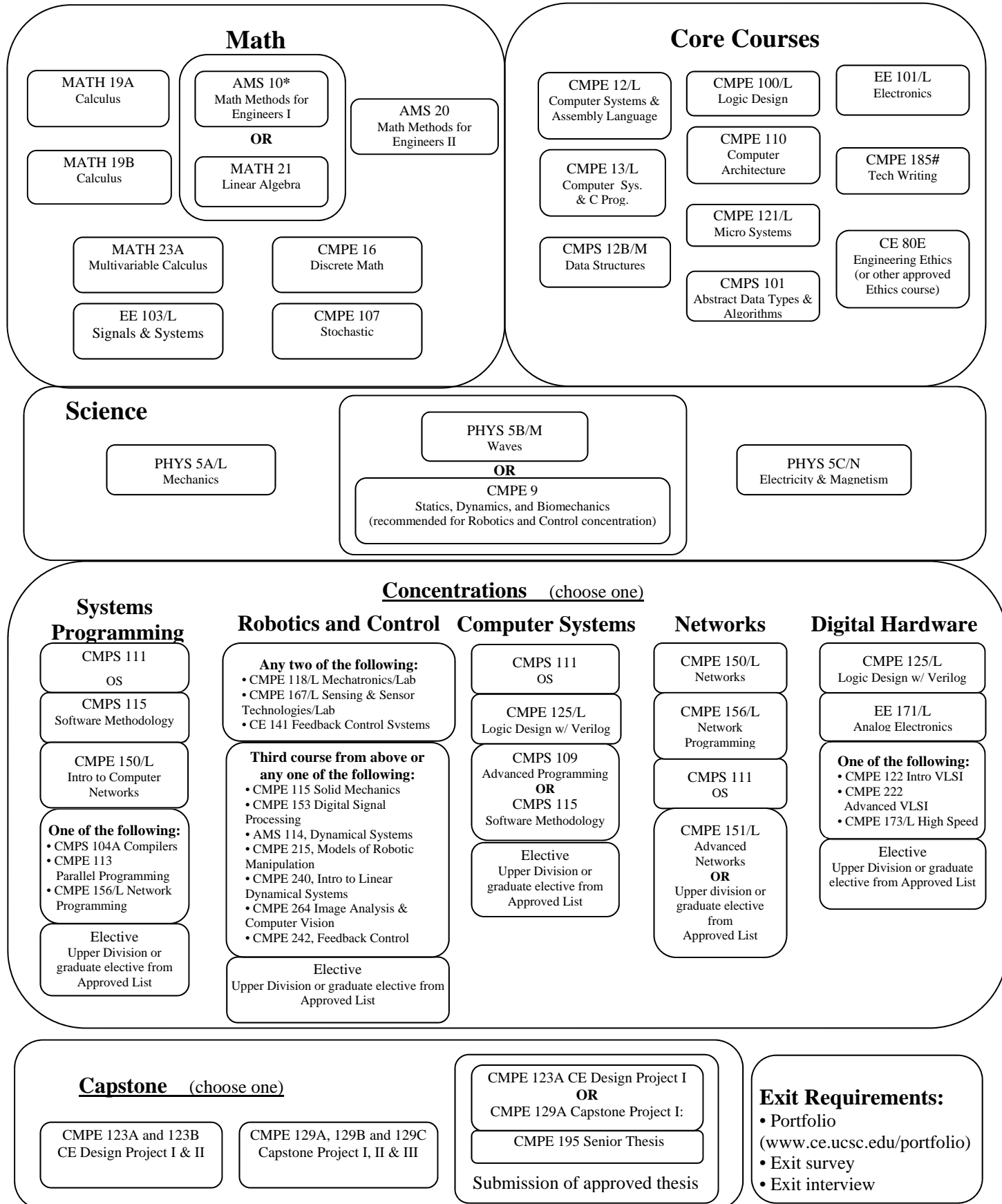


# Computer Engineering BS Degree Curriculum Chart 2013-2014



\* Preferred  
# Satisfies the DC requirement

**COMPUTER ENGINEERING BS  
DEGREE CURRICULUM**

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

**Approved List of Upper Division Electives**

- |   |   |  |
|---|---|--|
| AMS 114 Dynamical Systems<br>AMS 118 Estimation & Control Stochastic Processes<br>AMS 147 Computational Methods and Applications<br>CMPE 108 Data Compression<br>CMPE 112 Computer and Game Console Architecture<br>CMPE 113 Parallel Programming(or CMPS 113)<br>CMPE 115 Solid Mechanics<br>CMPE 118/L Intro to Mechatronics<br>CMPE 122 VLSI Digital System Design<br>CMPE 125/L Logic Design with Verilog<br>CMPE 131 Human-Computer Interaction<br>CMPE 141 Feedback Control Systems(or EE 154)<br>CMPE 150/L Intro. to Computer Networks<br>CMPE 151/L Advanced Computer Networks<br>CMPE 153 Digital Signal Processing(or EE 153)<br>CMPE 156/L Network Programming<br>CMPE 161 Mobile Sensing and Interaction | CMPE 167/L Sensor and Sensor Technologies<br>CMPE 177 Applied Graph Theory & Algorithms<br>◆CMPE 193 Field Study<br>◆CMPE 198 Independent Study/Research<br>CMPS 102 Analysis of Algorithms<br>CMPS 104A Compiler Design I<br>CMPS 104B Compiler Design II<br>CMPS 109 Advanced Programming<br>CMPS 111 Operating Systems<br>CMPS 112 Comparative Prog. Langs.<br>CMPS 115 Software Methodology<br>CMPS 122 Computer Security<br>CMPS 128 Distributed Systems and More<br>CMPS 129 Data Storage Systems<br>CMPS 130 Computational Models<br>CMPS 140 Artificial Intelligence<br>CMPS 142 Machine Learning and Data Mining | CMPS 146 Game AI<br>CMPS 160/L Computer Graphics<br>CMPS 161/L Visualization & Computer Animation<br>CMPS 180 Database Systems<br>CMPS 181 Database Systems II<br>CMPS 183 Hypermedia and the Web<br>CMPS 190X Methods of Cryptography<br>EE 130/L Optoelectronics & Photonics<br>EE 135/L Electro. Fields and Waves<br>EE 145/L Properties of Materials<br>EE 151 Communications Systems<br>EE 152 Introduction to Wireless Communications<br>EE 171/L Analog Electronics<br>EE 172 Advanced Analog Circuits<br>EE 173/L High Speed Digital Design<br>EE 175/L Energy Generation and Control<br>TIM 206 Optimization Theory and Appl. |
|---|---|--|

**Or Any 5-Credit CS, CE, or EE Graduate Course:** At most, one elective may be substituted by an upper-division individual or field study (CMPE, CMPS, EE 193 or 198) with approval.

◆Requires prior approval

**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 21<sup>st</sup> Century: Science, Business, and Society.

I have discussed the BS/MS program with my advisor.

**STUDENT'S NAME:** \_\_\_\_\_ **FACULTY ADVISOR:** \_\_\_\_\_

**STAFF ADVISOR:** \_\_\_\_\_