

2013-15 (Quarter System) Catalog - Transition Worksheet for Computer Engineering (CE)

Quarter System Course Requirements

Semester Equivalent Courses

| Term | REQUIRED LOWER DIVISION COURSES (24 units or equivalent) | Course Number | Notes |
|------|--|------------------------|--|
| | ECE 160 Introduction to Engineering | ECE 1618 | Also listed as ENGR 1618 |
| | CMPS 150 Introduction to Unix | ECE 1628 | Also listed as ENGR 1628 |
| | CMPS 221 Programming Fundamentals | CMPS 2010 | CMPS 150 + 221 + first part of 222 |
| | CMPS 223 Data Structures and Algorithms | CMPS 2020 | Second part of CMPS 222 + all of 223. Requires C- or better in CMPS 222 |
| | CMPS 224 Assembly Language Programming | CMPS 2240 | |
| | CMPS 295 Discrete Structures | CMPS 2120 | |
| Term | REQUIRED UPPER DIVISION COURSES (41 units or equivalent) | Course Number | Notes |
| | ECE 304 Signals and Systems I | ECE 3040 | ECE 304 + 330 |
| | ECE 307 Analog Circuits | ECE 3070 | |
| | ECE 320 Digital Circuits | ECE 3200 | Requires ENGR 207 |
| | ECE / CMPS 321 Computer Architecture | CMPS 3240 | Requires CMPS 224 or ECE 320 |
| | ECE 322 Digital Design with VHDL | ECE 3220 | |
| | ECE / CMPS 360 Operating Systems | CMPS 3600 | |
| | ECE 420 Embedded Systems | ECE 3250 | |
| | ECE 490A Senior Project I | ECE 4910 | |
| | ECE 490B Senior Project II | ECE 4928 | GE Capstone course |
| Term | ELECTIVE UPPER DIVISION COURSES (15 units or equivalent) | Course Number | Notes |
| | Choose one course from each of the three elective areas | | |
| | ECE | ECE | |
| | ECE | ECE | |
| | ECE | ECE | |
| Term | REQUIRED COGNATE COURSES (58 units or equivalent) | Course Number | Notes |
| | MATH 201 AND Calculus I (or MATH 231 Calculus I for Eng.) | MATH 2310 or 2510 | MATH 201/231 + part of MATH 202/232 |
| | MATH 202 Calculus II (or MATH 232 Calculus II for Eng.) | MATH 2320 or 2520 | Rest of MATH 202/232 + most of MATH 203/233 |
| | MATH 203 Calculus III (or MATH 233 Calculus III for Eng.) | MATH 2530 | Rest of MATH 203/233 + 204/234 |
| | MATH 204 Calculus IV (or MATH 234 Calculus IV for Eng.) | MATH 2610 | |
| | MATH 330 Linear Algebra (or MATH 230 Linear Alg. & App.) | MATH 3200 | |
| | MATH 340 Probability Theory | PHYS 2210 | Calc I is now a prereq |
| | PHYS 221 Classic Physics I | PHYS 2220 | Calc II is now a prereq |
| | PHYS 222 Classic Physics II | PHYS 2230 | |
| | PHYS 223 Optics and Modern Physics | ECE / ENGR 2070 | Also listed as PHYS 2070 |
| | PHYS/ENGR 207 Electric Circuits | PHIL 3318 | GE Upper-Division Area C |
| | PHIL 316 Professional Ethics (GE Theme 2) | | |

Note: This is purely an advisory worksheet provided for student convenience during the quarter-to-semester transition. Consult a department advisor if you have questions.