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|  | **Computer Engineering 2020-21 Catalog Advising Checklist** |  | Name: |  |
|  | **Semester Units: 120** | **Core Units: 95-97** |  | ID #: |  |

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| Lower Division Core (20) |  |
|  |  | ECE/ENGR 1618 - Introduction to Engineering I (2) | Advising Notes: |
|  |  | ECE/ENGR 1628 - Introduction to Engineering II (2) |  |
|  |  | CMPS 2010 - Progr. I: Programming Fundamentals (4) (grade of C- or better) |
|  |  | CMPS 2020 - Progr. II: Data Structures and Algorithms (4) (grade of C- or better) |
|  |  | CMPS 2120 - Discrete Structures (4) |
|  |  | ECE/ENGR/PHYS 2070 - Electric Circuits (4) (grade of C- or better) |
| Upper Division Core (32) |
|  |  | CMPS 3240 - Computer Architecture II: Organization (4) |
|  |  | CMPS 3600 - Operating Systems (4) |
|  |  | ECE 3040 - Signals and Systems (4) (grade of C- or better) |
|  |  | ECE 3070 - Analog Circuits (4) |
|  |  | ECE 3200 - Digital Circuits (4) |
|  |  | ECE 3220 - Digital Design with VHDL (4) |
|  |  | ECE 3250 - Embedded Systems (4) |
|  |  | ECE 4910 - Senior Project I (2) |
|  |  | ECE 4928 - Senior Project II (2) |
| Upper Division Electives [select 3 courses] (12) – At least one course must be at 4000-level |
| Choose from ECE 3230, 3280, 3340, 3610, 4220, 4240, 4250, 4260, 4460, 4470, 4550, 4570 |
| Up to 4 units of ECE 377x, 477x, 4800, 4860, 4870, 4890 may also be used for elective credit |
|  |  | ECE |
|  |  | ECE |
|  |  | ECE |
| Cognate Requirements (31-33) |
|  |  | MATH 2310 or 2510 - Calculus I (4) (grade of C- or better) |
|  |  | MATH 2320 or 2520 - Calculus II (4) (grade of C- or better) |
|  |  | MATH 2330 or 2530/2533 or Both 2531+2532 - Calculus III (4) |
|  |  | MATH 2610 - Linear Algebra (4) |
|  |  | MATH 3200 - Probability Theory (4) |
|  |  | PHYS 2210 - Classical Physics I (4) (grade of C- or better) |
|  |  | PHYS 2220 - Classical Physics II (4) (grade of C- or better) |
|  |  | PHIL 3318 - Professional Ethics (3) |
| Additional Units (any university units) (0-1) |
|  |  |  |
| General Education and University Requirements (24-30) |
|  |  | First Year Seminar - Satisfied by ECE/ENGR 1618 and 1628 |
|  |  | A1 - COMM 1008 (3) (grade of C- or better) |
|  |  | A2 - ENGL 1109 (3) (grade of C- or better) |
|  |  | A3 - Waived for Computer Engineering majors |
|  |  | B1/B3 - Satisfied by PHYS 2210 |
|  |  | B2/B3 - Waived for Computer Engineering majors |
|  |  | B4 - Satisfied by MATH 2310 or 2510 (or higher) with grade of C- or better  |
|  |  | C1 - Arts (3) |
|  |  | C2 - Humanities (3) |
|  |  | US History for American Institutions (AI) requirement (3) |
|  |  | Government for AI requirement - Recommend PLSI 1018 (3) |
|  |  | Area D (1st course) - Recommend ECON 2018 or 2028 (3) (Econ is part of FE exam) |
|  |  | Area D (2nd course) - 3 units waived for Computer Engineering majors |
|  |  | SELF - Recommend course that double-counts for another GE requirement (0-3) |
|  |  | Junior Year Diversity Reflection (JYDR) (3) |
|  |  | UD Area B - Not required for NSME majors |
|  |  | UD Area C - Satisfied by PHIL 3318 |
|  |  | UD Area D - Waived for Computer Engineering majors |
|  |  | Capstone - Satisfied by ECE 4928 |
|  |  | GWAR - Pass exam or get C- or better in course (0-3) |