ELECTRICAL & COMPUTER ENGINEERING

CMU/CU BOULDER PARTNERSHIP 2021 – 2022

Semester						Credits
1	F S MATH 135 4 Engineering Calculus I	F S PHYS 131 4 Fundamentals of Mechanics	F S PHYS 131L 1 Fundamentals of Mechanics Laboratory	F ENGR 101 1 Introduction to Engineering	F S CSCI 130 4 Introduction to Engineering Computer Science	F S SOCI 120 3 Technology & Society or other LD H&SS — 17
2	F S MATH 136 4 Engineering Calculus II	F S PHYS 132 4 Electromagnetism & Optics	F S PHYS 132L 1 Electromagnetism & Optics Laboratory	F S ENGR 140 3 First-Year Projects (Prerequisite is MATH 119 with "C" or better)	F S CSCI 112 4 CS2: Data Structures	16
3	F S MATH 236 4 Linear Algebra & Differential Equations	F EECE 225 3 Introduction to Circuits and Electronics	F EECE 225L 1 Introduction to Circuits and Electronics Lab	F EECE 235 3 Digital Logic	F EECE 237 3 Embedded Software Engineering	F S MATH 369 3 Discrete Structures I — 17
4	F S MATH 253 4 Calculus III	S EECE 226 3 * Circuits as Systems	S EECE 226L 1 Circuits as Systems Lab	S EECE 244 3 Application of Embedded Systems	F S SCIENCE 3 Basic Science Elective (see Program Sheet)	F S ELECTIVE 3 Lower-Division Humanities/Social Science Elective — 17
5	F ECEN 3250 3 * Microelectronics	S ECEN 3300 3 Linear Systems	F ECEN 3350 3 Programming Digital Systems	F S ECEN XXXX 3 Technical Elective	F ECEN 2000 1 ECE as a Profession	F S ELECTIVE 3 Lower-Division Humanities/Social Science Elective — 16
6		S ECEN 3593 3 Computer Organization	S ECEN 3753 3 * Real-Time Operating Systems	S ECEN 3810 3 Introduction to Probability Theory	F S ECEN XXXX 3 Technical Elective	F S ENGL 325 3 * Writing for Engineers — 15
7	F ECEN 4138 3 Control Systems Analysis	F ECEN 4610 3 Capstone Laboratory Part 1		F S ECEN XXXX 3 Technical Elective	F S ECEN XXXX 3 Technical Elective	F S ELECTIVE 3 Upper-Division Humanities/Social Science Elective — 15
8	S ECEN 4638 3 Control Systems Laboratory	S ECEN 4620 3 Capstone Laboratory Part 2		F S ECEN XXXX 3 Technical Elective	F S ELECTIVE 3 Software Elective	F S ELECTIVE 3 Upper-Division Humanities/Social Science Elective — 15

Prerequisite → Co-/Pre-requisite - - - - → *Complete before MCEN 4610

CMU Course | CU Course | F offered in Fall | S offered in Spring | TOTAL CREDITS = 128