ELECTRICAL & COMPUTER ENGINEERING CMU/CU BOULDER PARTNERSHIP 2022 - 2023 Credits Semester 3 17 **MATH 135 PHYS 131** PHYS 131L **ENGR 101 SOCI 120 CSCI 130** Introduction to Technology & Society Fundamentals of Fundamentals of Introduction to Engineering Calculus I **Engineering Computer** Mechanics Laboratory Mechanics Engineering other LD H&SS Science F S F S MATH 136 FS FS **PHYS 132** PHYS 132L **ENGR 140** 3 **CSCI 112** 16 First-Year Projects 2 Electromagnetism & Electromagnetism & **Engineering Calculus II** (Prerequisite is MATH CS2: Data Structures Optics Optics Laboratory 119 with "C" or better) MATH 236 4 **EECE 225** EECE 225L 1 **EECE 235** 3 **EECE 237** FS **MATH 369** 3 17 3 Linear Algebra & Introduction to Circuits Introduction to Circuits **Embedded Software** Digital Logic Discrete Structures I Differential Equations and Electronics and Electronics Lab Engineering S F S 3 17 **MATH 253** S **EECE 226** 3 EECE 226L **EECE 244** 3 SCIENCE 3 **ELECTIVE** Lower-Division 4 Application of Basic Science Elective Calculus III Circuits as Systems Circuits as Systems Lab Humanities/Social **Embedded Systems** (see Program Sheet) Science Elective ECEN 3250 3 ECEN 3300 ECEN 3350 F S ELECTIVE **ELECTIVE** 3 16 **ECEN 2000** 1 5 Lower-Division Programming Digital Microelectronics **Linear Systems** ECE as a Profession Free Humanities/Social Systems Science Elective S ECEN 3810 3 FS ELECTIVE 3 **ENGL 325** 3 S ECEN 3593 3 S ECEN 3753 3 Technical Elective 6 Real-Time Operating Introduction to (CVEN, ECEN, EMEN, Writing for Engineers Computer Organization **Probability Theory** Systems or MCEN) F S ELECTIVE ACE 3 ECEN 4610 3 F S ELECTIVE 3 F S ELECTIVE 3 3 15 Upper-Division Technical Elective Technical Elective **Advanced Concentration** Capstone Laboratory (CVEN, ECEN, EMEN, (CVEN, ECEN, EMEN, Humanities/Social Elective Part 1 or MCEN) or MCEN) Science Elective ACE 3 S ECEN 4620 F S ELECTIVE 3 ELECTIVE ELECTIVE 3 15 8 **Technical Elective** Upper-Division **Advanced Concentration** Capstone Laboratory (CVEN, ECEN, EMEN, Software Elective Humanities/Social Elective Part 2 or MCEN) Science Elective Prerequisite Co-/Pre-requisite F offered in Fall S offered in Spring CMU Course **CU Course TOTAL CREDITS = 128**