CIVIL ENGINEERING (BS)

Colorado Mesa University/University of Colorado Boulder Partnership 2023 – 2024

Semester						Credits
1	F S MATH 135 4 Engineering Calculus I	F CHEM 151 4 Engineering Chemistry	F CHEM 151L 1 Engineering Chemistry Laboratory	F ENGR 101 1 Introduction to Engineering	F S CIVE 127 3 Engineering Drawing for Civil Engineering	F S H&SS 3 Humanities/Social Science Elective SOCI120 recommended — 16
2	F S MATH 136 4 Engineering Calculus II	F S PHYS 131 4 Fundamentals of Mechanics	F S PHYS 131L 1 Fundamentals of Mechanics Laboratory	F S CSCI 130 4 Introduction to Engineering Computer Science	S ENGR 140 3 First-Year Engineering Projects (MATH 119 with "C")	16
3	F S MATH 253 4 Calculus III	F S PHYS 132 4 Electromagnetism & Optics		F S ENGR 261 3 Statics & Structures	F S CIVE 212 3 Introduction to Geomatics	F S Science 3 Basic Science Elective (see Program Sheet) — 17
4	F S MATH 236 4 Differential Equations & Linear Algebra		F S ENGR 263 3 Mechanics of Solids	F S ENGR 343 3 Dynamics	S CIVE 313 3 Theoretical Fluid Mechanics	F S H&SS 3 Humanities/Social Science Elective — 16
5		F CVEN 3246 3 ** Introduction to Construction	F CVEN 3414 3 Fundamentals of Environmental Engineering	F CVEN 3525 3 Structural Analysis	F CVEN 3323 3 Hydraulic Engineering	F S H&SS 3 Humanities/Social Science Elective — 15
6	S CVEN 3227 3 ** Probability & Statistics	S CVEN 3256 3 Construction Equipment & Methods	S CVEN 3708 3 Geotechnical Engineering 1	F S MCEN 3012 3 Thermodynamics		F S ENGL 325 3 Writing for Engineers (or equivalent CU Boulder course) — 15
7		F CVEN 4333 3 Engineering Hydrology	F CVEN 4545 3 Steel Design	F CVEN 4897 2 ** Professional Issues	F S Civil Elective 3 CVEN Civil Engineering Elective	F S Tech Elective 3 General Technical Elective (Can be CVEN course) / F S UD H&SS 3 Upper-Division Humanities/Social Science Elective — 17
8	S CVEN 3424 3 Water & Wastewater Treatment	45 credits must be taken from CU Boulder		S CVEN 4899 4 ** Civil Engineering Senior Design Project	F S Civil Elective 3 CVEN Civil Engineering Elective	F S Tech Elective 3 General Technical Elective (Can be CVEN course) / F S UD H&SS 3 Upper-Division Humanities/Social Science Elective — 16

Prerequisite → Co-/Pre-requisite ⇢

**Junior or senior standing required

CMU Course | CU Course | F offered in Fall | S offered in Spring

TOTAL CREDITS = 128