CMU/CU PARTNERSHIP MECHANICAL ENGINEERING CURRICULUM

SEMESTER 1
- MATH 135-4: Engineering Calculus I
- CHEM 151-4: Engineering Chemistry
- CHEM 151L-1: Engineering Chem-Lab
- ENGR 101-1: Intro to Engineering
- CSCI 130: Intro Engr Computing
- ENGR 140-3: 1st-Year Engr Projects
- MAMT 102-1: Machine Fundamentals

SEMESTER 2
- MATH 136-4: Engineering Calculus II
- PHYS 131-4: Fundamentals of Mechanics
- PHYS 131L-1: Fundamentals of Mechanics-Lab
- ENGR 125-3: CAD & Fabrication
- ENGR 140-3: Pre-Req MATH 119 w/C or better
- SOCI 120: Technology & Society

SEMESTER 3
- MATH 253-4: Calculus III
- PHYS 132-4: Electromagnetism & Optics
- PHYS 132L-1: Electromagnetism & Optics-Lab
- ENGR 224-2: Material Science
- ENGR 224L-1: Material Science Lab
- SOCI 120: Technology & Society

SEMESTER 4
- MATH 236-4: Linear Algebra & Differential Equations
- Sci Elective-3: PHYS 230, PHYS 231, BIOL 209 or CHEM 311
- ENGR 261: Statics & Structures
- ENGR 263: Statics & Structures
- ENGR 264: Statics & Structures
- ENGL 111 & 112: LD Humanities/Social Sci

SEMESTER 5
- MCEN 3012-3: Thermodynamics
- MCEN 3021-3: Fluid Mechanics
- MCEN 3017-3: Circuits & Electronics
- MCEN 3000-3: Computational Methods
- MCEN 2000-1: Professionalism Seminar
- MCEN 3026-3: MFG Processes & Sys

SEMESTER 6
- MCEN 3032-3: Thermodynamics 2
- MCEN 3022-3: Heat Transfer
- MCEN 3025-3: Component Design
- MCEN 3047-4: Data/Measurements
- MCEN 4026-3: MFG Processes & Sys

SEMESTER 7
- MCEN Elect-3: ME Technical
- MCEN 4053-3: ME Design Project 1
- MCEN 4054-3: ME Design Project 2
- MCEN 4061-3: Writing for Design Project
- MCEN 4062-3: Writing for Design Project

SEMESTER 8
- MCEN Elect-3: ME Technical
- MCEN 4085-3: ME Design Project 2
- MCEN 4086-3: Writing for Design Project
- FREE-2: Elective
- ELECTIVE-3: UD Humanities/Social Sci

Complete before or with MCEN 4045

Pre-requisite → Co/Pre-requisite → Standard Version

Effective 2018-2019