

2013 – 14 DEGREE REQ. WORKSHEET **CMU/CU-Boulder Mechanical Engineering Partnership Program** www.coloradomesa.edu/engineering



Name: CMU ID #:	

IMPORTANT NOTE: This sheet is only a worksheet to track your progress in the CMU/CU-Boulder Mechanical Engineering Partnership Program. An official review of your coursework will be performed by CU administration to ensure completion of all graduation requirements.

***Studen	ts should work closely w	ith a faculty advisor wl	hen selecting and scheduling courses	s prior to registration.		
Minimum cr	edits to graduate: 128 hrs					
	OULDER MECHANICA	L ENGINEERING	Course No Title	Sem.hrs Grade Term/Tri		
<u>REQUIRE</u>	O COURSES:					
			CU-Boulder Mechanical Engineering Courses:			
Course No	Title	Sem.hrs Grade Term/Trns	40 semester hours			
			MCEN 3012 Thermodynamics	3		
	es and Computer Science:		MCEN 3017 Circuits & Electronics	3		
	Engineering Calculus I	4	MCEN 3021 Fluid Mechanics	3		
	Engineering Calculus II	4	MCEN 3022 Heat Transfer	3		
	Calculus III	4	MCEN 3025 Component Design	3		
MATH 236	Differential Equations &		MCEN 3030 Computational Methods	3		
	Linear Algebra	4				
CSCI 130	Intro to Engr Computing	3	MCEN 3037 Exp Design & Data Anal	2		
			MCEN 3032 Thermodynamics 2	3		
	ience: 18 semester hours		MCEN 4026 Manufacturing Processes			
PHYS 131	Fundamental Mechanics	4	& Systems	3		
PHYS 131L	Fundamental Mechanics		MCEN 4037 Measurements Laboratory	y 2		
	Laboratory	1	MCEN 4043 System Dynamics	3		
PHYS 132	Electromagnetism & Optic	s 4	MCEN 4045 ME Design Project 1	3		
PHYS 132L	Electromagnetism & Optic	S	MCEN 4047 Mechanical Engineering			
	Laboratory	1	Laboratory	2		
PHYS 231	Modern Physics	3	MCEN 4085 ME Design Project 2	4		
CHEM 131	General Chemistry	4				
CHEM 131I	General Chemistry		ELECTIVE COURSES:			
	Laboratory	1	Humanities and Social Science: 15 ser	mester hours (6 hours		
	·		must be upper division). Check website	for complete list of		
English: 3 s	emester hours		courses.	-		
ENGL 425	Scientific Writing	3				
	_		9 semester hours Lower Division Huma	inities & Social Science		
Machining:	1 semester hour		SOCI 120 Technology & Society	3		
MAMT 102	Machining Fundamentals	1				
	_					
Basic Engin	eering: 20 semester hours					
ENGR 101	Introduction to Engineering	g 2	6 semester hours Upper Division Huma	nities & Social Science		
ENGR 125	CAD and Fabrication	3				
ENGR 140	1st-Year Engr Projects	3				
ENGR 224	Materials Science	3				
ENGR 261	Statics and Structures	3	Technical Electives: 12 semester hours	s (6 hours MCEN and 6		
ENGR 343	Dynamics	3	hours upper division math, science or en			
ENGR 263	Mechanics of Solids	3	MCEN			
			MCEN			



2013 – 14 DEGREE REQ. WORKSHEET CMU/CU-Boulder Mechanical Engineering Partnership Program www.coloradomesa.edu/engineering



This is a recommended sequence of course-work. Certain courses may have prerequisites or are only offered during the fall or spring semesters. It is the responsibility of the student to meet regularly with their assigned advisor.

Freshman Year

FALL SEMESTER		Credit Hr	SPRING SEMESTER		Credit Hr
MATH 135	Engineering Calculus I	4	MATH 136	Engineering Calculus II	4
PHYS 131	Fundamental Mechanics	4	PHYS 132	Electromagnetism & Optics	4
PHYS 131L	Fundamental Mechanics Lab) 1	PHYS 132L	Electromagnetism & Optics Lab	1
ENGR 101	Introduction to Engineering	2	ENGR 140	1 st Year Engineering Projects	3
ENGR 125	CAD & Fabrication	3	CSCI 130	Introduction to Engineering Computi	ng <u>3</u>
MAMT 102	Fundamental Machining	<u>1</u>			
	TOTAL	15		TOTAL	15

Sophomore Year

FALL SEMESTER		Credit Hr	SPRING SEMESTER		Credit Hr
MATH 253	Calculus III	4	MATH 236	Differential Equations & Linear Algeb	ra 4
CHEM 131	General Chemistry	4	ENGR 343	Dynamics	3
CHEM 131L	General Chemistry Lab	1	ENGR 263	Mechanics of Solids	3
ENGR 224	Materials Science	3	PHYS 231	Modern Physics	3
ENGR 261	Statics & Structures	3		Hum/Soc Sci Elect (Lower Div)	<u>3</u>
SOCI 120	Technology & Society	<u>3</u>			
	TOTAL	18		TOTAL	16

Junior Year

FALL SEMES	STER Cre	Credit Hr SPRING SEME		MESTER	Credit Hr
MCEN 3012	Engineering Thermodynamics	3	MCEN 3022	Heat Transfer	3
MCEN 3017	Electronics & Circuits	3	MCEN 3025	Component Design	3
MCEN 3021	Fluid Mechanics	3	MCEN 3037	Experimental Design & Data Analy	sis 2
MCEN 3030	Computational Methods	3	MCEN 3032	Thermodynamics 2	3
	Hum/Soc Sci Elect (Lower Div)	<u>3</u>	ENGL 425	Scientific Writing	3
				Hum/Soc Sci Elect (Upper Div)	<u>3</u>
	TOTAL	15		TOTAL	17

Senior Year

FALL SEMESTER		redit Hr	SPRING SEI	MESTER	Credit Hr
MCEN 4026	Manufacturing Processes & S	ys 3	MCEN 4047	ME Laboratory	2
MCEN 4043	Systems Dynamics	3	MCEN 4085	ME Design Project 2	4
MCEN 4037	Measurements Lab	2		MCEN Technical Elective	3
MCEN 4045	ME Design Project 1	3		General Technical Elective	3
	MCEN Technical Elective	3		General Technical Elective	<u>3</u>
	Hum/Soc Sci Elect (Upper Div	/) <u>3</u>			_
	TOTAL	17		TOTAL	15

Black - CMU courses, red - CU courses

Total Credit Hours = 128