Department of Mechanical Engineering ~ North Dakota State University
Student Guide ME Degree with Coatings & Polymeric Materials Minor ~ Fall 2012

NO GRADES LESS THAN A "C" IN THE COURSES REQUIRED FOR THE ME DEGREE WILL BE ACCEPTED TO FULFILL A COURSE REQUIREMENT
COURSES FOR CPM MINOR WILL FOLLOW CPM'S GRADING REQUIREMENTS

	FALL				SPRING			
	Course	Course Title	Cr.	Gr.	Course	Course Title	Cr.	Gr.
BASIC	MATH 165	Calculus I*	4		MATH 166	Calculus II	4	
	ENGL 110 [C]	College Composition I*	3		ENGL 120	College Composition II*	3	
	CHEM 121	General Chemistry I*	3		CHEM 122	General Chemistry II*	3	
	ME/UNIV 189 [F]	Skills for Academic Success*	1		ME 212	Fund. Visual Communications	3	
	Hum. Elect. [A]	*	3		ME 221	Engineering Mechanics I	3	
	Soc. Sci. Elect. [B]	*	3		Wellness [W]	*	2	
			17				**18**	
	MATH 129	Basic Linear Algebra	2		MATH 266	Intro/Differential Equations	3	
	MATH 259	Multivariate Calculus	3		COMM 110	Fundamentals of Public Speaking*	3	
	IME 330	Manufacturing Processes	3		PHYS 252	University Physics II*	4	
	ME 222	Engineering Mechanics II	3		PHYS 252L	University Physics Lab II*	1	
	ME 223	Mechanics of Materials	3		ME 213	Modeling of Engineering Systems	3	
	Hum. Elect. [A]	*	3		ME 351	Thermodynamics I	3	
			17				**17**	
PROFESSIONAL	ECE 301	Electrical Engineering I	3		ECE 303	Electrical Engineering II	3	
	ENGL 321	Writing in the Technical Professions*	3		ECE 306	Electrical Engineering Lab	1	
	CHEM 341	Organic Chemistry I+	3		CHEM 342	Organic Chemistry II+	3	
	CHEM 341L	Organic Chemistry Lab I+	1		CHEM 342L	Organic Chemistry Lab II+	1	
	ME 331	Materials Science & Engineering	4		ME 442	Machine Design I	3	
	ME 352	Fluid Dynamics	3		ME 454	Heat & Mass Transfer	3	
	CPM 451	Lab, Chem, Radiation, & Biol Safety+	1		CPM Elective	+	2	
	ME 361	Intro to Mech. Engr. Profession	1		Soc. Sci. Elect. [B]	*	3	
			19				**19**	
	ENGR 402	Engineering Ethics/Social Respon.	1		ME 412	Engineering Measurements	3	
	ME 443	Machine Design II	3		ME 421	Theory of Vibrations	3	
	ME 457	Thermal Systems Laboratory	3		ME 462	Design Project II	3	
	ME 461	Design Project I	3		Technical Elective	^	3	
	Technical Elective	^	3		Technical Elective	^	3	
	ME apprv'd CPM Tech El.	+^	3		ME apprv'd CPM Tech El.	+^	3	
			16				**18**	

Gen. Ed. Electives [category]		
Humanities/Fine Arts [A]		
*		
*		
Social/Behavioral Sciences [B]		
*		
*		
*Global Perspective [G]		●
*Cultural Diversity [D]		■
Extra Courses	**Cr.**	**Gr.**
Total Major Credits		**130**
Total Minor Credits+		**17**
GPA		
Basic Program Credits	**0**	**53**
Engr GPA		

Key:

* Course fulfills a general education requirement.

[ ] General education category - see academic bulletin for details.

[C] First year students with a composite ACT ≥ 21 may register for Engl 120. A passing grade will be awarded for 110 by completing 120 with a "C" or better.
[F] Students earning ≥ 24 transfer credits are not required to take ME/UNIV 189.

^ No more than six credits of approved Technical Electives may be taken outside the ME department. Courses must be 3 credits.

Applicable Courses for CPM minor. A minimum of 16 credits are needed. These courses will follow CPM grading requirements unless its meeting a requirement for the ME curriculum. Some Prereqs are not listed.

+^ME dept has approved four CPM courses to meet Mechanical Engineering Technical Elective requirements. These courses also count towards the Minor as well. They are CPM 473, CPM 474, CPM 475 and CPM 486.

BS: _____
FEE: _____