

Department of Mechanical Engineering ~ North Dakota State University

Standard Curriculum Guide ~ Required Degree Credits for Graduation: 129

Name: _____

ID: _____

Advisor: _____

NO GRADES LESS THAN A "C" WILL BE ACCEPTED TO FULFILL A COURSE REQUIREMENT

FALL		SPRING		Gen. Ed. Electives [category]						
Course	Course Title	Cr.	Gr.	Course	Course Title	Cr.	Gr.			
BASIC	MATH 165	Calculus I*	4		MATH 166	Calculus II	4		Humanities/Fine Arts [A]	
	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		Social/Behavioral Sciences [B]	
	ME 111 ¹	Intro to Mechanical Engr	2		ME 212	Fund. Visual Communications	3		*	
	Hum. Elect. [A]	*	3		ME 221	Engineering Mechanics I	3		*Global Perspective [G]	
					Wellness [W]	*	2		*Cultural Diversity [D]	
			15				18		Ethics Requirement	
	MATH 129	Basic Linear Algebra	3		MATH 266	Intro/Differential Equations	3		Extra Courses	
	MATH 259	Multivariate Calculus	3		COMM 110	Fundamentals of Public Speaking*	3		Cr.	Gr.
	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			
	Soc. Sci. Elect. [B]	*	3		ME 351	Thermodynamics I	3			
			18				17			
PROFESSIONAL	ECE 301	Electrical Engineering	3		ECE 306	Electrical Engineering Lab	1			
	ENGL 321	Writing in the Technical Professions*	3		ME 361	Product Design and Development	3			
	ME 331	Materials Science & Engineering	4		ME 442	Machine Design I	3			
	ME 352	Fluid Dynamics	3		ME 454	Heat & Mass Transfer	3			
	Technical Elective	^	3		ENGR 327 [A/D]	Ethics, Engr. & Technology	3			
					Technical Elective	^	3			
			16				16			
	ME 421	Theory of Vibrations	3		ME 412	Engineering Measurements	3			
	ME 443	Machine Design II	3		ME 462	Design Project II	3			
	ME 457	Thermal Systems Laboratory	3		TE/Grad Elec 1	●	3		Required Credits for Graduation 129	
	ME 461	Design Project I	3		TE/Grad Elec 2	●	3		Total Major Credits earned** 130	
Technical Elective	^	3		Soc. Sci. Elect. [B]	*	3				
		15				15				
								GPA		
								Basic Program Credits <u>0</u> <u>54</u>		
								Engr GPA		

Key:

"T" indicates requirement satisfied with transfer course.

"IP" indicates a course currently in progress.

* Course fulfills a general education requirement.

^ No more than nine credits of approved Technical Electives may be taken outside the ME department. ** A minimum of 2 credits for Math 129 is acceptable to satisfy degree requirements

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

[C] Students with ACT sub-test score of 18+ (or SAT of 430+) may enroll in ENGL 120. A passing grade will be awarded for 110 by completing 120 with a "C" or better.

Students who have earned ≥ 30 transfer credits are not required to take ME 111

GPA:

Cumulative GPA for basic program entry: 2.7

Engr GPA for professional program entry: 2.7

Cumulative GPA for graduation: 2.5

BS: _____
AUDIT: _____