Industrial Engineering and Management (IE&M) - Accelerated MBA Curriculum Curriculum Guide effective 2023 ~ North Dakota State University

STUDENT	ID#	Advisor

	Fall				Spring							
_	Course			Crs	Sem	Grade	Course			Crs	Sem	Grade
	CHEM	121	General Chemistry I	3			IME	111	Introduction to IME	3		
s)	CHEM	121L	General Chem Lab I	1			MATH	166	Calculus II	4		
34 cr	[C] ENGL	110	College Composition I	4			ME	212	Fund of Visual Comm	3		
an (ENGL	120	College Composition II	3			ME	221	Engr Mechanics I	3		
Freshman (34 crs)	MATH	165	Calculus I	4			CHEM	122	General Chemistry II	3		
F	Comp Sci Elect		(see side bar)	3								
				18						16		
	COMM	110	Fund of Public Speaking	3			IME	311	Work/Station Design	3		
crs)	IME	330	Mfg Processes	3			MATH	266	Differential Equations	3		
7-59	MATH	129	Basic Linear Algebra	3			PHYS	252	University Physics II	4		
re (2	MATH	259	Multivariate Calculus	3			PHYS	252L	University Physics II Lab	1		
ошо	ME	222	Engr Mechanics II	3			ME	223	Mechanics of Materials	3		
Sophomore (27-59 crs)	Gen Ed - ECON	105	Elements of Economics	3			Gen Ed Elect			3		
				18				ı		17		
	IME	656	Program & Project Mgmt	3			IME	461	Quality Assurance & Cntrl	3		
(s	IME (replaces STAT 330)	460	Evaluation of Engr Data	3			IME	670	Operations Research I	3		
39 cr	ENGL	321	Writing in Tech Profession	3			IME	672	Simulation Bus & Indl Sys	3		
Junior (60-89 crs)	CE	309	Fluid Mechanics	3			ME	350	Thermodynamics/Heat Trsf	3		
nior	IME	640	Engineering Economy	3			Gen Ed Elect		(see side bar)	3		
3							Wellness Elect		(see side bar)	2		
				15						17		
	Gen Ed - ENGR	327	Ethics, Engineering, and Techno	3			IME	450	Systems Engr & Mgmt	3		
	IME	680	Production & Inventory Cntrl	3			Engr Sci Elect		(see side bar)	3		
crs)	IME	482	Automated Mfg Systems	3			IME	489	IME Capstone	3		
+ 06	IME	485	Indl & Mfg Facility Design	3			Technical Elect		(see side bar)	3		
Senior (90 + ars)	MGMT (IME TECH)	320	Found. Of Mngt.	3			MRKT (IME TECH)	320	Foundation of Marketing	3		
Sen												
	ACCT	102	Fund. of Accnt	3			FIN	320	Principles of Finance	3		
				18						18		
									TOTAL CREDITS	137		
	MBA	701	Strategic Cost Management	2			MBA	705	Strategic Marketing Managemen	2		
MBA	MBA	702	Advanced Financial Management	2			MBA	706	Managing Information Resources	2		
	MBA	703	Advanced Organizational Behavior	2			MBA	707	Microeconomics for Managers	2		
	MBA	704	Supply Chain and Operations Manag	2			MBA	708	Advanced Strategic Management	2		<u> </u>
				8						8		

General Education Electives				
See Registration Sci	hedule for appro	ved courses.		
Humanities/Fine Arts [A]	Crs	Sem	Grade	
ENGR 327	3			
*	3			
Social/Behavioral Sciences [B]				
ECON 105	3			
*	3			
W- Wellness	2			
	14			
Check of	ff once complete	d		
D - Cultural Diversity: double up with	[A] or [B]			
G - Global Perspectives: double up v	vith [A] or [B]			

IE&M Electives Approved electives are listed on the back of this page.				
Computer Science Elective	3			
Take ONE of the following 4 cour	rses:			
CSCI 122, ECE 173, CSCI 159 or CSCI 160				
Engineering Science	12			
CE 309, ME 223, & ME 350	9			
Choose ONE of the following 3 courses belo	W:			
ECE 275 or ECE 301 or EE 206	3-4			
Technical Electives	9			
MGMT 320	3			
MRKT 320	3			
*				

[&]quot;T" indicates requirement satisfied with transfer credits.

Grades less than "C" will not be accepted for CHEM, MATH, and PHYS. [C] First Year students with an ACT score of 18 or higher in English may register for ENGL 120. A passing grade will be awarded for ENGL 110 by completing ENGL 120 with a "C' or better.

^{*} See reverse side for elective information.

IE&M BS + MBA				
MBA Prerequisites				
ACCT 102	Fundamentals of Accounting	3		
ECON 105	Elements of Economics	3		
FIN 320	Principles of Finance	3		
MGMT 320	Foundations of Management	3		
MRKT 320	Foundations of Marketing	3		
IME 460 (STAT 330)	Evaluations of Engineering Data	3	Completed	
		18	during the 4-	
MBA Electives			years BS	
IME 656	Program and Project Management	3	curriculum	
IME 640	Engineering Economy	3		
IME 670	Operations Research	3		
IME 672	Simulation of Business and Industrial Systems	3		
IME 680 Production and Inventory control		3		
		15		
MBA Core				
MBA 701	Strategic Cost Management	2		
MBA 702	Advanced Financial Management	2		
MBA 703	Advanced Organizational Behavior	2		
MBA 704	Supply Chain and Operations Management	2	Completed	
MBA 705	Strategic Marketing Management	2	during the 5th	
MBA 706	Managing Information Resources	2	year	
MBA 707	Microeconomics for Managers	2		
MBA 708	Advanced Strategic Management	2		
		16		
	Total Sum	49		

MBA PreReq Acct 102, Econ 105, Fin 320, MGMT 320 or MRKT 320, STAT 330

MBA Electives 14 crs min

MBA Substitutes

MBA Core 16 crs min. 8 credits per semester

MBA IME ACCT 102 N/A

ECON 105 IME Gen Ed

FIN 320 N/A

MGMT 320 IME TECH
MRKT 320 IME TECH
STAT 330 IME 460