

Industrial & Management Systems Engineering Curriculum 2017-2018 Catalog

			Fall	Spring
Freshman Year	EIND 101	Introduction to Industrial Engineering	1	
	CHMY 141	College Chemistry I	4	
	M 171Q	Calculus I	4	
	WRIT 101W	College Writing I ¹	3	
	University Core Electives		3	3
	COMX 111US	Public Communication		3
	EIND 142	Introduction to Systems Engineering		2
	M 172Q	Calculus II		4
	PHSX 220	Physics I (w/ calculus)		4
			15	16
Sophomore Year	EGEN 201	Engineering Mechanics--Statics	3	
	EMAT 251	Materials Structures and Prop	3	
	M 273Q	Multivariable Calculus	4	
	PHSX 222	Physics II (w/ calculus)	4	
	University Core Elective		3	
	CSCI 127	The Joy of Beauty of Data		4
	EGEN 205	Mechanics of Mtls		3
	EIND 313	Work Design and Analysis		3
	M 221	Introduction to Linear Algebra		3
	Engineering Core Elective ²			3
		17	16	
Junior Year	EIND 300	Engineering Management & Ethics	3	
	EIND 354	Engineering Probability and Statistics I	3	
	EIND 364	Principles of Operations Research I	3	
	EIND 413	Ergonomics & Human Factors Engineering	3	
	EMEC 103	CAE I-Engineering Graphics Communications	2	
	ETME 215	Manufacturing Processes	3	
	EGEN 310R	Multidisc Engineering Design		3
	EGEN 325	Engineering Economic Analysis		3
	EIND 410	Interaction Design		2
	EIND 455	DOE for Engineers		
	or EIND 457	Regres & Multivar Analysis		3
	EIND 458	Production & Engineering Mgmt		3
	EIND 464	Prin of Operations Research II		3
		17	17	
Senior Year	EIND 371	Intro to Computer Integrated Manufacturing	3	
	EIND 422	Introduction to Simulation	3	
	EIND 434	Project and Engineering Management	3	
	EIND 442	FacandMat Hndlg Sys Dsgn	3	
	EIND 477	Quality Assurance		3
	EIND 499R	Indust Engin Design Capstone		3
	EGEN 488	Fundamentals of Engineer Exam		0
	University Core Elective			3
	IMSE Cognate Electives ³		3	6
		15	15	

Total = 128 Credits

¹ Students exempt from MSU writing requirement may substitute WRIT 201, WRIT 221, HONR201, HONR202, or add 3 credits to their IMSE cognate.

² Engineering Core Elective: Choose EELE 250, EGEN 202, or EGEN 324.

³ See [IMSE Cognate Policy](#) for details.

A minimum of 128 credits is required for graduation; 42 of these credits must be in courses numbered 300 or above.