

Concurrent BS/MS in Industrial Engineering 2020-2021 Catalog: Suggested Course Sequence

Degree	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10	
BS in I E 122 credits	MATH 165 Calc I 4 cr	MATH 166 Calc II 4 cr	MATH 265 Calc III 4 cr	MATH 267 Diff Eq/Lap 4 cr	I E 305 Engr Econ Analysis 3 cr	I E 348 Solidification Processes 3 cr	I E 413 Stoch Modeling 4 cr	I E 448 Manuf Sys Engr 3 cr			
	SSH Elective 3 cr	PHYS 221 Classical Phys I 5 cr	I E 248 Intro Mfg Processes 3 cr	STAT 231 Prob & Stat 4 cr	I E 312 Optimization 3 cr	I E 361 Quality Assurance 3 cr	ENGL 314 Tech Comm 3 cr	I E 441 IE Design 3 cr			
	CHEM 167 Engr Chem 4 cr	SSH Elective 3 cr	MAT E 273 Prin of Mat Science 3 cr	IE 222 Des & An Sys Improvements 3 cr	I E 341 Production Systems 3 cr	Engr Topic Elective 3 cr	M E 231 Engineering Thermo 3 cr	Engr Topic Elective (500 level) 3 cr			
	IE 148 Information Engr 3 cr	ENGL 150 Comp I 3 cr	PHYS 232X & PHYS 232L Class Phys II 5 cr	I E 271 Applied Ergo 3 cr	C E 274 Statics 3 cr	SSH Elective 3 cr	Focus Elective (500 level) 3 cr	Mgmt Elective 3 cr			
	ENGR 101 Orientation R cr	LIB 160 Library 1 cr	ENGL 250 Comp II 3 cr	SSH Elective 3 cr	SP CM 212 Fund of Public Speaking 3 cr	E E 442 Intro Circuits 2 cr	Focus Elective 3 cr				
	IE 101 IE Orientation R cr										
MS in I E 31 credits									IE 500 or 600 level course 3 cr *	M.S. Thesis IE 699 3 cr	M.S. Thesis IE 699 6 cr
										Grad course outside major 3 cr	IE 500 or 600 level course 3 cr
										Grad course outside major 3 cr	
										IE 500 or 600 level course 3 cr	
										GR ST 565 1 cr	
BS IE 122 cr	16	16/30	18/48	17/65	15/80	14/94	16/110	12/122			
MS IE 31 cr							3/3	6/9	13/22	9/31	
Shared 6 cr							(3/3)	(3/6)			
Total 147 cr	14	16/30	18/48	17/65	15/80	14/94	16/110	15/125	13/138	9/147	

Light blue shading indicates Basic Program classes for all Engineering Majors. Dark blue indicates the IE core.

Last Updated 7/30/2020 HMR

6 credits (500 level courses) of shared between the B.S. and M.S. programs. * Exclusive to IMSE Degree.