

Concurrent BS in Industrial Engineering/Masters in Business Administration

2020-2021 Catalog: Suggested Course Sequence

Degrees	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	M E 231 Engr Thermo 3 cr	Focus Elective 3 cr (IE 451)	Engr Topic Elective 3 cr	I E 441 IE Design 3 cr
	SSH Elective 3 cr (ECON 101)	PHYS 221 Classical Phys I 5 cr	IE 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	Mgmt Elective 3 cr (IE 450)	ENGL 314 Tech Comm 3 cr	I E 413 Stoch Model 4 cr	I E 448 Manuf Sys Engr 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				
	IE 148 Info 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				
	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 Pub Speaking 3 cr	E E 442 Intro Circuits 2 cr				
	IE 101 IE Orientation R cr									
MBA 48 credits								FIN 501 Finance 3 cr	MGMT 503 Bus & Society 3 cr	MBA Elective 3 cr
							ACCT 501 Accounting 3 cr	MKT 501 Marketing 3 cr	MGMT 504 Strategy 3 cr	MBA Elective 3 cr
							ECON 532 Economics 3 cr Focus Elective	SCM 501 Supply Chain 3 cr	MBA Elective 3 cr	MBA Elective 3 cr
							MGMT 502 Org Behavior 3 cr	MIS 503 MIS 3 cr		
						BUSAD 592 Prof Skills I R cr	BUSAD 594 Prof Skills II R cr			
I E 122 cr	14	16/30	18/48	17/65	15/80	14/94	9/103	6/109	7/116	6/122
MBA 48 cr							12/12	15/27	9/36	12/48
Shared 12 cr							(6/6)	(3/9)	(0/9)	(3/12)
Total 158 cr	14	16/30	18/48	17/65	15/80	14/94	16/109	18/127	16/143	15/158

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

Twelve acceptable graduate credits may be applied to both the BS in I E and the MBA. The twelve “shared” credits include a Management elective (e.g. IE 450), two Focus electives (e.g. ECON 532 and IE 451) and IE 441. The shared course credits must be taken after the student is enrolled as a graduate student (Semester 7).

The BUSAD 502 in the MBA program is waived if STAT 231 is satisfactorily completed (grade B or better).

I E students should plan to take ECON 101 for a Social Science and Humanities (SSH) elective as a prerequisite to ECON 532 in the MBA.

Twelve credits of MBA electives in Semester 9 and Semester 10 must be 500 level courses from the College of Business.

Last Updated 7/30/20 HMR