BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING PATTERN OF ATTENDANCE - CLASS OF 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL		SPRING			SUMMER 1			SUMMER 2	
	MATH1341		4 MATH1342	Calculus 2 for Engrs.	4				İ		
	CHEM1151		4 PHYS1151	Physics 1 Engrs.	3						
Freshman	CHEM1153	Recitation for CHEM1151	0 PHYS1152	Physics 1 Lab	1	Manadia.			\/+:		
Year 1	GE1000	Intro to Eng'g.	1 PHYS1153	ILS for PHYS1151	1		Vacation			Vacation	
	GE1501	Cornerstone Eng. 1	4 <u>GE1502</u>	Cornerstone Eng. 2	4						
	ENGW1111	College Writing	4 Elective	General Elective	4						
	MATH2321	Calculus 3 for Engrs.	4 <u>MATH2341</u>	Diff. Eq./ Lin. Alg.	4						
	IE2310	Intro Ind. Eng'g	4 <u>*IE3412</u>	Eng'g Prob. Stat.	4						
Year 2	IE2311	Recitation for IE2310	0 <u>IE4512</u>	Eng'g Economy	4		Vacation			Со-ор	
AA	IE3425	Eng'g Database	4 Elective	General Elective	4		vacation			со-ор	
	IE3426		0 <u>ENCP2000</u>	Intro to Eng'g, Co-op	1						
	***Elective		5								
	MATH2321		4								
	<u>IE2310</u>		4								
Year 2	<u>IE2311</u>		0								
BA	<u>IE3425</u>	0.0	4	Со-ор			Со-ор			Vacation	
	<u>IE3426</u>		0								
	***Elective		5								
	ENCP2000	Intro to Eng'g, Co-op	1	- W							
			<u>IE4516</u>	Quality Assurance	4		General Elective	4			
Year 3		6	<u>IE4515</u>	Operations Research	4	Elective	General Elective	4		6	
AA		Со-ор	<u>IE4510</u>	Simulation Mod. & An.	4					Со-ор	
			**ENGW330	2 Adv. Writing for Prof.	4						
	MATH2341	Diff. Eq./ Lin. Alg.	4						Elective	General Elective	4
	*IE3412		4						Elective	General Elective	4
Year 3	IE4512		4	Со-ор			Со-ор				
BA	<u> </u>	,	4	·			·				
			<u>IE4525</u>	Logistics & Supply Chain	4		Capstone Design 1	1			
			<u>IE4520</u>	Stochastic Modeling	4	Elective	General Elective	4			
Year 4		Со-ор	<u>IE4530</u>	Mfg. Sys. & Techniques	4	Elective	General Elective	4		Со-ор	
AA			<u>IE4531</u>	Lab for IE4530	1					,	
			Elective	Technical Elective 1	4						
	IEAEAC	O lit. A	ENCP3000	Prof. Issues In Eng'g,	1				El-ation	Cara and Flanti	
	<u>IE4516</u> IE4515		4						Elective Elective	General Elective General Elective	4
Year 4	IE4515 IE4510		4						Elective	General Elective	4
BA	IE4510 IE4530		4	Со-ор			Co-op				
BA	IE4530 IE4531	· ·	1								
	ENCP3000	Prof. Issues in Eng'g,	1								
	L.1CI 3000	TOTAL ISSUES III EIIN B,	MEIE4702	Capstone Design 2	5						
1			IE4522	Human Machine Systems	4						
Year 5			IE4523	Lab for IE4522	1	1					
AA	Со-ор		Elective	Technical Elective 2	4						
			Elective	General Elective	4						
	<u>IE4525</u>		4 <u>MEIE4702</u>	Capstone Design 2	5						
Year 5	<u>IE4520</u>		4 <u>IE4522</u>	Human Machine Systems	4	1					
BA	Elective		4 <u>IE4523</u>	Lab for IE4522	1	1					
	Elective		4 Elective	Technical Elective 2	4						
	MEIE4701	Capstone Design 1	1 Elective	General Elective	4						

*MATH3081 is an acceptable substitution for IE3412. The substitution is recommended for students minoring in Mathematics. **ENGW3315 is an acceptable substitution for engineering majors.

NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to $\ do \ so. \ General \ Electives \ are \ academic, \ non-remedial, \ non-repetitive \ courses.$

Engineering Technical Elective - 2 required - Any IE, ME, MEIE, EMGT, OR, EECE, CIVE, or CHME that is not part of the Industrial Engineering core curriculum.

Electives may be interchanged.

1/3/2017

2/3/2017

4/10/2017

7/13/2017

2/28/2018

4/2/2019

Electives may be interchanged. <u>Please consult with your Academic Advisor, found here.</u>
The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

***Science Elective

Complete one of the following:

complete one of the following.
PHYS 1155 Physics for Engineering 2
and PHYS 1156 Lab for PHYS 1155
and PHYS 1157 Interactive Learning Seminar for PHYS 1155
CHEM 1214 General Chemistry 2
and CHEM 1215 Lab for CHEM 1214
and CHEM 1216 Recitation for CHEM 1214
CHEM 2311 Organic Chemistry 1
and CHEM 2312 Lab for CHEM 2311
and CHEM 2319 Recitation for CHEM 2311
BIOL 1115 General Biology 1 for Engineers
and BIOL 1116 Lab for BIOL 1115
BIOL 1117 Integrated Anatomy and Physiology 1
and BIOL 1118 Lab for BIOL 1117