

INDUSTRIAL ENGINEERING CURRICULUM 2022

Louisiana Tech University

Name _____

Date _____

CWID _____

Email _____@latech.edu

COURSE		PREREQUISITE	SCH	QTR	GRADE			
INEN	300	MATH 220, MATH 242, or MEMT 206	2		R			
	301		3		R			
	315	ENGR 122	3		R			
	400	MATH 242, 240-242 GPA > 2.0	3		R			
	401	INEN 400	3		R			
	402	INEN 400 ^o , 240-242 GPA > 2.0	3		R			
	403	INEN 400, 401	3		R			
	404	INEN 400, 402	2		R			
	406	INEN 300	2		R			
	407	INEN 400, 402, 404	3		R			
	408	INEN 300	3		R			
	409	INEN 300	3		R			
	410	INEN 402	3		R			
	413	INEN 300	3		R			
	414	MATH 242	3		R			
	421	MATH 245, ENGR 220, INEN 401,409	1		R			
	422	INEN 406, 421	1		R			
	423	INEN 422	1		R			
	BISC	101		3				
CHEM	101	CHEM 100	2		*			
	102	CHEM 101	2		*			
	103	CHEM 101 ^o , CHEM 100	1		*			
COMM	101	FYE 100 ^o	3					
ENGL	101		3					
	102	ENGL 101	3					
	303	ENGL 102	3					
	363	ENGL 303	3					
ENGR	120	MATH 240 ^o , CHEM 100 ^o	2		*			
	121	ENGR 120, MATH 241 ^o , CHEM 101 ^o	2		*			
	122	ENGR 121, MATH 242 ^o	2		*			
	220	ENGR 122, MATH 242, PHYS 201	3					
	221	ENGR 122, MATH 242, PHYS 201	3					
	222	ENGR 122, MATH 242	3					
	425		1					
MATH	241	MATH 240	3		*			
	242	MATH 241	3		*			
	243	MATH 242	3		*			
	244	MATH 243	3		*			
	245	MATH 244	3					
	308	MATH 243 or MATH 311	3					
MEEN	215	MEMT 201 ^o	1					
	321	MEMT 201	2					
MEMT	201	ENGR 122	2					
PHYS	201	MATH 241	3		*			
	202	PHYS 201, MATH 242	3					
ELECTIVES/ GER								
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)			3					
Directed Elective _____			3		*			
HIST _____			3					
Social Science _____			3					
Social Science _____			3					
TOTAL SEMESTER HOURS			128					

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA	
Rubric GPA	_____
MATH 241-244 GPA	_____

NOTES	
<ul style="list-style-type: none"> * requires grade of "C" or higher o credit or registration in R course in rubric <p>1 Directed electives must be selected in consultation with advisor.</p> <p>2 Petitions must be filed for substitutions.</p> <p>3 A student must have a minimum 2.0 GPA on all hours pursued in courses designated: INEN.</p>	

ADDITIONAL COMMENTS	

Advisor: _____

INDUSTRIAL ENGINEERING
Louisiana Tech University

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving 2	2	ENGR 122	* Engr Problem Solving 3	2
MATH 240	* Math for Engr & Science	3	MATH 241	* Calculus I	3	MATH 242	* Calculus II	3
CHEM 100	* General Chemistry	2	CHEM 101	* General Chemistry	2	PHYS 201	* Physics for Engr & Science I	3
ENGL 101	Freshmen Composition I	3	CHEM 103	* General Chemistry Lab	1	COMM 101	<input type="checkbox"/> Principles of Comm Studies	3
FYE 100	Freshman Year Experience	1	ENGL 102	Freshmen Composition II	3			
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	Statics & Mechs of Materials	3	ENGR 221	Electrical Engr & Circuits I	3	ENGR 222	Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	Differential Equations	3
INEN 300	Engineering Economics	2	INEN 301	Industrial Cost Analysis	3	MATH 308	Linear Algebra	3
MEMT 201	Engineering Materials	2	INEN 315	Computer-Aided Engineering	3	PHYS 202	Physics for Engr. & Science II	3
CHEM 102	* General Chemistry	2						
		12			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
INEN 400	Engineering Statistics I	3	INEN 401	Engineering Statistics II	3	INEN 403	Design of Experiments	3
INEN 402	Intro to Operations Research	3	INEN 404	Operations Research	2	INEN 413	Robotics & Automation	3
INEN 409	Work Design	3	ENGL 303	Technical Writing	3	INEN 414	Industrial Ergonomics	3
Social Science **		3	MEEN 215	Engineering Materials Lab	1	ENGL 363	Scientific/Tech Presentations	3
			MEEN 321	Manufacturing Processes	2			
		12			11			12

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
INEN 407	Simulation	3	INEN 406	Project Management	2	INEN 410	Mfg. Systems Management	3
INEN 408	Mfg. Facilities Planning	3	INEN 422	Capstone Design II	1	INEN 423	Capstone Design III	1
INEN 421	Capstone Design I	1	ENGR 425	Engr. Ethics & Professionalism	1	Social Science**		3
History Elective		3	Fine Arts Appreciation		3	BISC 101	Fundamental of Biology I	3
			Directed Elective◊		3			
		10			10			10

Neither MATH 240 nor CHEM 100 count towards the Industrial Engineering degree.

* Requires grade of "C" or higher.

Courses in **bold** are *typically* offered only once per year.

Must be completed within first year of enrollment

◊Directed Electives chosen by student in consultation with faculty advisor and approved by the Industrial Engineering Program Chair.

**Social Science electives can be selected from Anthropology, Criminal Justice, Economic, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.