

INDUSTRIAL ENGINEERING
LOUISIANA TECH UNIVERSITY
Curriculum as of 2014

Name _____

Date _____

Student ID _____

Email _____

COURSE	PREREQUISITE	SH	SCHED	GRADE	SUBSTITUTIONS	APPR	SH	GRADE
INEN 300		2			1			
301		3	W					
315	ENGR 122	3	W		2			
400	MATH 242, MATH 241-242 GPA ≥ 2.0	3	F					
401	INEN 400	3	W		3			
402	INEN 400**, MATH 241-242 GPA ≥ 2.0	2	F					
404	INEN 400, 402	3	W		4			
405		3	Sp					
407	INEN 400, 402, 404	3	F		5			
408	INEN 300, MEEN 321	3	F					
409	INEN 300; junior standing	3	W		6			
410	INEN 402	3	Sp					
413	INEN 300	3	Sp		7			
414	INEN 300	3	Sp					
421	INEN 405, 413, 414; senior standing	1	F					
422	INEN 421	1	W					
423	INEN 422	1	Sp					
CHEM 101	CHEM 100 (or by placement)	2		*				
102	CHEM 101	2		*				
103	CHEM 101**	1		*				
ENGL 101		3						
102	ENGL 101	3						
210, 211, or 212	ENGL 102	3						
303	ENGL 102	3						
363	ENGL 303	3						
ENGR 120	MATH 240**, CHEM 100**	2		*				
121	ENGR 120, MATH 241**, CHEM 101**	2		*				
122	ENGR 121, MATH 242**	2		*				
220	ENGR 122, MATH 242, PHYS 201	3						
221	ENGR 122, MATH 242, PHYS 201	3						
222	ENGR 122, MATH 242	3						
MEMT 201	ENGR 122	2						
MEEN 215	MEMT 201**	1						
321	MEMT 201	2						
MATH 241	MATH 240 (or by placement)	3		*				
242	MATH 241	3		*				
243	MATH 242	3		*				
244	MATH 243	3		*				
245	MATH 244	3						
308	MATH 244	3	W					
PHYS 201	MATH 241	3		*				
202	PHYS 201	3						
ELECTIVES								
ART (ART 290, KINE 280, MUGN 290, or THTR 290)		3						
BISC 101		3						
HIST _____ See note 5		3						
Social Science _____ See note 1 and 5		3						
Social Science _____		3						
Social Science _____		3						
Directed Elective _____ See note 2		3						
TOTAL SEMESTER HOURS		128						

ADDITIONAL COURSES	SH	GRADE

NOTES

* Requires grade of "C" or better.
 ** Credit or registration in.

- 1 Social Science electives must include at least two disciplines selected from Economics, Geography, Political Science, Psychology, or Sociology.
- 2 Directed electives must be selected in consultation with student's advisor.
- 3 Substitutions must be initiated by Program Chair. Put substitution number in the "grade" blank of the course being replaced.
- 4 A student must have a 2.0 grade point average on all hours pursued in courses designated as INEN (Industrial Engineering).
- 5 All students must complete an International Education Requirement. HIST 102, GEOG 205 and GEOG 210 meet this requirement.

Comments: _____

Advisor's Name _____

INDUSTRIAL ENGINEERING LOUISIANA TECH UNIVERSITY

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FRESHMAN YEAR										
Fall Quarter			Winter Quarter			Spring Quarter			Cr	Gr
ENGR 120*	Engr Problem Solving I	2	ENGR 121*	Engr Problem Solving II	2	ENGR 122*	Engr Problem Solving III	2		
<i>MATH 240*</i>	Math for Engr & Science	3	MATH 241*	Calculus I	3	MATH 242*	Calculus II	3		
<i>CHEM 100*</i>	General Chemistry	2	CHEM 101*	General Chemistry	2	PHYS 201*	Physics for Engr & Sci. I	3		
ENGL 101	Freshmen Composition I	3	CHEM 103*	General Chemistry Lab	1	BISC 101	Fundamentals of Biology	3		
UNIV 100	University Seminar	1	ENGL 102	Freshmen Composition II	3					
		11			11			11		

SOPHOMORE YEAR										
Fall Quarter			Winter Quarter			Spring Quarter			Cr	Gr
ENGR 220	Statics & Mechs of Materials	3	INEN 301	Industrial Cost Analysis	3	MEEN 215	Engineering Materials Lab	1		
MATH 243*	Calculus III	3	INEN 315	Computer-Aided Engineering	3	MEEN 321	Manufacturing Processes	2		
INEN 300	Engineering Economics	2	MATH 244*	Calculus IV	3	MATH 245	Differential Equations	3		
MEMT 201	Engineering Materials	2	ENGR 221	Electrical Engr & Circuits I	3	ENGR 222	Thermodynamics	3		
CHEM 102*	General Chemistry	2				HIST***		3		
		12			12			12		

JUNIOR YEAR										
Fall Quarter			Winter Quarter			Spring Quarter			Cr	Gr
INEN 400	Engineering Statistics I	3	INEN 401	Engineering Statistics II	3	INEN 405	Industrial Scheduling	3		
INEN 402	Intro to Operations Research	3	INEN 404	Operations Research	2	INEN 413	Robotics & Manufacturing	3		
PHYS 202	Physics for Engr & Science II	3	INEN 409	Work Design	3	INEN 414	Industrial Ergonomics	3		
ENGL 303	Technical Writing	3	MATH 308	Intro. to Linear Algebra	3	ENGL 363	Scientific/Tech Presentations	3		
		12			11			12		

SENIOR YEAR										
Fall Quarter			Winter Quarter			Spring Quarter			Cr	Gr
INEN 407	Simulation	3	INEN 422	Capstone Design II	1	INEN 423	Capstone Design III	1		
INEN 408	Manufact Facilities Planning	3	Directed Elective**		3	INEN 410	Manufact Systems Mgmt	3		
INEN 421	Capstone Design I	1	Social Science***		3	ENGL 210, 211, or 212	Literature	3		
ART†	Fine Arts Appreciation	3	Social Science***		3	Social Science***		3		
		10			10			10		

Neither *MATH 240* nor *CHEM 100* counts toward the Industrial Engineering degree. Placement exams are available.

* Grade of C or higher required before taking a course for which this one is a prerequisite.

** Directed electives are chosen in consultation with advisor and approved by the Program Chair.

*** HIST 102, GEOG 205, or GEOG 210 count as the International Education Requirement (IER).

† ART 290, KINE 280, MUGN 290, or THTR 290 counts as the Fine Arts Requirement.

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