

**INDUSTRIAL ENGINEERING**  
 Louisiana Tech University  
 Curriculum as of 2016

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

Email \_\_\_\_\_@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
INEN 300		2		R
301		3		R
315	ENGR 122	3		R
400	MATH 242, 240-242 GPA $\geq$ 2.0	3		R
401	INEN 400	3		R
402	INEN 400, 240-242 GPA $>$ 2.0	3		R
403	INEN 400, 401	3		R
404	INEN 400, 402	2		R
407	INEN 400, 402, 404	3		R
408	INEN 300, MEEN 321	3		R
409	INEN 300	3		R
410	INEN 402	3		R
413	INEN 300	3		R
414	INEN 300	3		R
416	INEN 400	3		R
421	INEN 413, 414, ENGR 220, MATH 245	1		R
422	INEN 421	1		R
423	INEN 422	1		R
BISC 101		3		
CHEM 101	CHEM 100	2		*
102	CHEM 101	2		
103	CHEM 100, 101 $\circ$	1		
COMM 101		3		
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
363	ENGL 303	3		
ENGR 120	MATH 240 $\circ$ , CHEM 100 $\circ$	2		*
121	ENGR 120, MATH 241 $\circ$ , CHEM 101 $\circ$	2		*
122	ENGR 121, MATH 242 $\circ$	2		*
220	ENGR 122, MATH 242, PHYS 201	3		
221	ENGR 122, MATH 242, PHYS 201	3		
222	ENGR 122, MATH 242	3		
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 $\circ$	1		
321	MEMT 201	2		
MEMT 201	ENGR 122	2		
PHYS 201	MATH 241	3		*
202	PHYS 201, MATH 242	3		
<b>ELECTIVES</b>				
Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
Directed Elective		3		
HIST		3		
Social Science		3		
Social Science		3		
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA	
Rubric GPA	_____
MATH 241-244 GPA	_____

NOTES	
*	requires grade of "C" or higher
$\circ$	credit or registration in
R	course in rubric
1	Directed electives must be selected in consultation with advisor.
2	Petitions must be filed for substitutions.
3	A student must have a minimum 2.0 GPA on all hours pursued in courses designated: INEN
4	All students must complete an International Education Requirement (IER). Courses acceptable: HIST 102, GEOG 205, and GEOG 210.

ADDITIONAL COMMENTS	

IER requirement met

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 & Sscience	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 & Sci. I	3
ENGL 101	Freshmen Composition I	3	CHEM 103	General Chemistry Lab	1	COMM 101	<input type="checkbox"/> Principles of Comm Studies	3
	-----		ENGL 102	Freshmen Composition II	3		-----	
	-----			-----			-----	
		10			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	HIST	History Elective	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
PHYS 202	Physics for Engr & Science II	3	INEN 409	Work Design	3	INEN 414	Industrial Ergonomics	3
MEEN 215	Engineering Materials Lab	1	ENGL 303	Technical Writing	3	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 408	Manufacturing Facilities Planning	3	INEN 407	Simulation	3	INEN 410	Manufacturing Sys. Management	3
INEN 416	Project Management	3	INEN 422	Capstone Design II	1	INEN 423	Capstone Design III	1
INEN 421	Capstone Design I	1	Directed Elective		3	Social Science		3
Art		3	Social Science		3	BISC 101	Biological Science	3
	-----			-----			-----	
		10			10			10

Neither MATH 240 nor CHEM 100 count towards the industrial engineering degree.

\* requires grade of "C" or higher.

must be completed within first year of enrollment

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

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

Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary

All students must complete an International Education Requirement prior to graduation. A list of courses can be found in the university catalog.

Courses that do not have any pre-requisite requirement are: GEOG 205, GEOG 210, HIST 102.