

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	□ 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	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	Mfg. Facilities Planning	3	INEN 407	Simulation	3	INEN 410	Mfg. Systems 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
Fine Arts Appreciation		3	Social Science**		3	BISC 101	Fundamental of Biology I	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.