

Industrial Engineering, B.S.

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Lab	4
Rhetoric & Composition		3
MATH 2413	Calculus I	4
MEEN 1310	Engineering Graphics I	3
GEEN 1201	Engineering as a Career	2
Semester Credit Hours		16
Semester 2		
Rhetoric & Composition		3
American History		3
MATH 2414	Calculus II	4
MEEN 1320	Elem Num Meth & Engr Prob Solv	3
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
Semester Credit Hours		17
Sophomore Year		
Semester 1		
IEEN 2310	Appl. Meth. in Engr. Stat. I	3
MATH 3320	Differential Equations	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
Government/Political Science		3
Social/Behavioral ¹		3
Semester Credit Hours		16
Semester 2		
IEEN 3321	Op. Research Meth. in Engr. I	3
IEEN 3325	Engr Economic Analysis I	3
MEEN 2355	Statics and Dynamics	3
MEEN 3344	Materials Science	3
Creative Arts		3
Semester Credit Hours		15
Junior Year		
Semester 1		
IEEN 3314	Engr. Meth. In Qual Assurance	3
IEEN 3315	Comp. Based Prod. & Inv. Con.	3
MATH 3415	Calculus III	4
MEEN 3347	Thermodynamics	3
Communication		3
Semester Credit Hours		16
Semester 2		
MEEN 3370	Introduction to Electromechanical System Design	3
IEEN 3310	Appl. Meth. in Engr. Stat. II	3
IEEN 3341	Human Factors and Ergonomics	3
MEEN 3349	Fundamentals of Mfg Processes	3
Government/Political Science		3

American History		3
Semester Credit Hours		18
Senior Year		
Semester 1		
IEEN 4163	Senior Design Project I	1
IEEN 4316	Facility Design & Plant Layout	3
IEEN 4328	Appl. of Computer Simulation	3
IEEN 4332	Prin of Engr Proj Management	3
Engineering Elective (p. 2)		3
Semester Credit Hours		13
Semester 2		
IEEN 4264	Senior Design Project II (WI)	2
IEEN 4354	System Safety Engineering	3
Engineering Elective (p. 2)		3
Engineering Elective (p. 2)		3
Lang/Phil/Culture		3
Semester Credit Hours		14
Total Credit Hours Required:		125

¹ EVEN 2372 or ECON 2301 recommended

Engineering Electives

Code	Title	Semester Credit Hours
CSEN 4367	Data Mining	3
EEEN 4357	Wireless Sensor Networks	3
IEEN 4312	Supply Chain Management	3
IEEN 4313	Standards in Supply Chain	3
IEEN 4321	Op. Research Meth. in Engr. II	3
IEEN 4325	Engr. Economic Analysis II	3
IEEN 4334	Lean Manufacturing	3
IEEN 4335	Special Problems	1-3
IEEN 4336	Selected Topics	1-3
IEEN 4351	Reliability & Adv. Top. in QC	3
IEEN 4360	Comp. Int. Manuf. Sys.	3
MEEN 4341	Appl of Thermodynamics	3
MEEN 4355	Robotics I	3
MEEN 4371	Introduction to UAVs	3
MEEN 4372	Resource Optimization for DHS	3
MEEN 4373	Info Anal. & Mod. in Sec Eng	3

Other courses must be approved in advanced by Student's advisor