Industrial Engineering, B.S.

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
CHEM 1311	Gen Inorganic Chemistry I	4
& CHEM 1111	and Gen Inorganic Chem Lab I	
ENGL 1301	Rhetoric and Composition	3
MATH 2413	Calculus I	4
MEEN 1310	Engineering Graphics I	3
GEEN 1201	Engineering as a Career ¹	2
	Semester Credit Hours	16
Semester 2		
ENGL 1302	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
MATH 2414	Calculus II	4
MEEN 1320	Elem Num Meth & Engr Prob Solv	3
PHYS 2325	University Physics I	4
& PHYS 2125	and University Physics I Lab	
	Semester Credit Hours	17
Sophomore Year		
Semester 1		
IEEN 2310	Appl. Meth. in Engr. Stat. I	3
MATH 3320	Differential Equations	3
PHYS 2326	University Physics II	4
& PHYS 2126	and University Physics II Lab	
POLS 2301	Government and Politics of US	3
Social/Behavioral ²		3
Semester 2	Semester Credit Hours	16
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	Waterials Science	3
	Compositor Credit Llouro	
Junior Year	Semester Credit Hours	15
Semester 1	From Math In Ovel Accurates	2
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
Communications ³		3
Semester 2	Semester Credit Hours	16
	Circuits and Electron Devises	<u></u>
EEEN 3331	Circuits and Electmag Devices	3
IEEN 3310	Appl. Meth. in Engr. Stat. II	3
IEEN 3341	Human Factors and Ergonomics	3
MEEN 3349	Fundamentals of Mfg Processes	3
POLS 2302	Government and Politics of TX	3

HIST 1302	American History since 1877	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 Pre-Engineering Students and Alternate Pre-Engineering students are required to take UNIV 1201 instead of GEEN 1201.

² EVEN 2372 or ECON 2301 recommended

³ ENGL 2374 or COMS 2374 is required unless otherwise approved by advisor and department chair.

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	

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