BACHELOR OF SCIENCE IN ENGINEERING - ENGINEERING MANAGEMENT

Engineering Management

Engineering Management is a multidisciplinary engineering program that combines narrow, focused depths in industrial engineering, business, and management. First, students complete a core set of engineering courses to provide a solid foundation in computer, electrical, industrial, and mechanical engineering principles. Then, Engineering Management students complete a set of twelve upper-level concentration courses. Six required concentration courses provide depth in industrial engineering and math. Students customize their program's depth with a selection of six concentration electives from a range of industrial engineering, management, and business courses.

The plan of study shown below incorporates the six required Engineering Management courses into the BSE's general plan of study. The six courses labeled "CONCENTRATION ELECTIVE COURSE" refer to the selections from the "Select One of the Following" and "Select Five of the Following" categories shown on the Engineering's Curriculum page.

Course	Title	Credit Hours
Freshman I		
CILE-101	First Year Foundations	1
COMM-101	Rhetoric & Writing	4
CHEM-135	Principles of Chemistry	3
CHEM-136	Principles of Chemistry Lab	1
MATH-101 or ECE-100	Calculus I or Principles of Electrical and Computer Engineering	4
IME-100 or ECE-100	Interdisciplinary Design and Manufacturing or Principles of Electrical and Computer Engineering	4
	Credit Hours	17
Freshman II		
LA-201	Sophomore Seminar: Exploring the Human Condition	4
MATH-102	Calculus II	4
PHYS-114	Newtonian Mechanics	3
PHYS-115	Newtonian Mechanics Laboratory	1
IME-100 or ECE-100	Interdisciplinary Design and Manufacturing or Principles of Electrical and Computer Engineering	4
	Credit Hours	16
Sophomore I		
ECON-201	Economic Principles	4
MATH-203	Multivariate Calculus	4
PHYS-224	Electricity and Magnetism	3
PHYS-225	Electricity and Magnetism Laboratory	1
ECE-101	MATLAB and C Programming	4
	Credit Hours	16

Sophomore II

	Total Credit Hours	161
	Credit Hours	4
& CILE-401	and Undergraduate Thesis Completion	4
CILE-400	Undergraduate Thesis Initiation	4
Any Term	Credit Hours	16
ENGIT 450	Design Project	
ENGR-490	Senior Multidisciplinary Engineering	4
Free Elective		4
	ties or Social Science Elective	4
Senior III CONCENTRATION	ELECTIVE COURSE	4
	Credit Hours	16
LA-489	Sr. Seminar:Leadership, Ethics	4
Math/Science Elec		4
CONCENTRATION ELECTIVE COURSE		4
CONCENTRATION ELECTIVE COURSE		4
Senior II		
THE LICOTIVE	Credit Hours	20
Free Elective		4
	ties or Social Science Elective	4
	ELECTIVE COURSE	4
IME-564	Ethics and Practice of Engineering	4
IME-453	Supply Chain Design	4
Senior I	Credit Hours	20
Auvanced Humani		4
	ties or Social Science Elective	4
IME-452	Production System Design ELECTIVE COURSE	4
MATH-350	Financial Mathematics	4
IME-351	Engineering Economics	4
Junior II	Engineering Feenemies	4
	Credit Hours	20
Advanced Humani	ties or Social Science Elective	4
CONCENTRATION	ELECTIVE COURSE	4
IME-332	Engineering Statistics	4
IME-321	Operations Research - Deterministic Models	4
MECH-310	Dynamics	4
Junior I	Cleuit Hours	10
IVIA I FI-230	Credit Hours	16
IME-200 MATH-258	Introduction to Industrial Engineering Probability and Statistics	4
EE-211	Circuits I Lab	1
EE-210	Circuits I	3
MECH-210	Statics	4
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