

Course List

Code	Title	Credit Hours
ENGR 2196	Technical Communication	3
or ENGR 2996	Honors Technical Communication by Design	
ENGR 4296	Senior Design Project II	3
or ENGR 4996	Honors Senior Design Project II	

Department Requirements

Course List

Code	Title	Credit Hours
Required Math, Basic Science and Computer Courses		
MATH 1041	Calculus I	4
or MATH 1941	Honors Calculus I	
MATH 1042	Calculus II	4
or MATH 1942	Honors Calculus II	
MATH 2043	Calculus III	4
or MATH 2943	Honors Calculus III	
MATH 3041	Differential Equations I	3
or MATH 3941	Honors Differential Equations I	
PHYS 1061	Elementary Classical Physics I	4
or PHYS 1961	Honors Elementary Classical Physics I	
PHYS 1062	Elementary Classical Physics II	4
or PHYS 1962	Honors Elementary Classical Physics II	
CHEM 1035	Chemistry for Engineers	3
CHEM 1033	General Chemistry Laboratory I	1

Course List

Code	Title	Credit Hours
or CHEM 1953	Honors Chemical Science Laboratory I	
CIS 1051	Introduction to Problem Solving and Programming in Python	4
Select one of the following		3
ENGR 2011	Engineering Analysis & Applications	
MATH 2101	Linear Algebra	
MEE 2011	Linear Systems	
Required General Education Courses		
Select one of the following		4
ENG 0802	Analytical Reading and Writing	
ENG 0812	Analytical Reading and Writing: ESL	
ENG 0902	Honors Literature/Reading/Writing	
IH 0851	Intellectual Heritage I: The Good Life	3
or IH 0951	Honors Intellectual Heritage I: The Good Life	
IH 0852	Intellectual Heritage II: The Common Good	3
or IH 0952	Honors Intellectual Heritage II: The Common Good	
GenEd 08xx or 09xx (Human Behavior)		3
GenEd 08xx or 09xx (Race and Diversity)		3
GenEd 08xx or 09xx (Global/World Society)		3
GenEd 08xx or 09xx (U.S. Society)		3
GenEd 08xx or 09xx (Arts)		3
Required Industrial and Systems Engineering Courses		
ISE 2101	Applied Statistical Methods for Industrial and System Engineers	3

Course List

Code	Title	Credit Hours
ISE 2102	Production Process Design and Laboratory	4
ISE 2103	Deterministic Models in Operations Research	3
ISE 3101	Product Quality Assurance	3
ISE 3102	Stochastic Models in Operations Research	3
ISE 4101	Human Factors (Ergonomics)	3
ISE 4102	Industrial Simulation	3
ISE 4103	Engineering Cost Analysis	3
ISE 4104	Production Planning and Control	3
Required Engineering Courses		
ENGR 1101	Introduction to Engineering & Engineering Technology	3
or ENGR 1901	Honors Introduction to Engineering	
ENGR 1102	Introduction to Engineering Problem Solving	3
ENGR 1117	Engineering Graphics	2
ENGR 2196	Technical Communication	3
or ENGR 2996	Honors Technical Communication by Design	
CEE 3048	Probability, Statistics & Stochastic Methods	3
ENGR 3001	Engineering Economics	3
ENGR 4169	Engineering Seminar	1
ENGR 4172	Senior Design Project I for Engineering	2
ENGR 4296	Senior Design Project II	3
or ENGR 4996	Honors Senior Design Project II	
Engineering Elective		3

Course List

Code	Title	Credit Hours
Required Business Courses		
ACCT 2501	Survey of Accounting	3
MSOM 3101	Operations Management	3
SCM 3515	Principles of Supply Chain Management	3
SCM 3516	Transportation and Logistics Management	3
SCM 3517	Inventory and Warehouse Management	3
Total Credit Hours		128