

Graduation Requirement Courses

General Education		33 credits
90591xxx	General Education Elective in the Value of Life	6 credits
90592xxx	General Education Elective in the Way of Society	3 credits
90593xxx	General Education Elective in the Science of Thought	3 credits
90594xxx	General Education Elective in the Art of Management	3 credits
90595xxx	General Education Elective in Language and Communication	12 credits
9059xxx	General Education Elective	3 credits
90641004	Team Project 1	1 credit
90641005	Team Project 2	1 credit
90641006	Team Project 3	1 credit
Mathematics and Science for Engineering		30 credits
01006030	Calculus 1	3 credits
01006031	Calculus 2	3 credits
01006032	Elementary Differential Equation and Linear Algebra	3 credits
01216501	Numerical Method for Engineering	3 credits
01216502	Probability and Statistics 1	3 credits
01216503	Probability and Statistics 2	3 credits
01006020	General Physics 1	3 credits
01006021	General Physics Laboratory 1	1 credit
01006022	General Physics 2	3 credits
01006023	General Physics Laboratory 2	1 credit
01006024	General Chemistry	3 credits
01006025	General Chemistry Laboratory	1 credit
Basic Engineering Courses		22 credits
01006028	Pre Activity for Engineer	1 credit
01006010	Engineering Mechanics	3 credits
01006011	Engineering Materials	3 credits
01006012	Computer Programming	3 credits

01216760	Production Engineering Drawing							3 credits
01216764	Manufacturing Processes							3 credits
01216765	Electrical Engineering							3 credits
Basic Engineering Courses for Industrial Engineering Track			Basic Engineering Courses for Production Engineering Track			Basic Engineering Courses for Food Production System Engineering Track		
01216761	Thermodynamics	3 credits	01216761	Thermodynamics	3 credits	01216762	Thermo-Fluids	3 credits
Required Engineering Courses								31 credits
01216767	Industrial Engineering Practice							2 credits
01216768	Industrial Engineering Laboratory							1 credit
01216769	Mechanical Engineering Laboratory							1 credit
01216770	Industrial Safety Engineering							3 credits
01216771	Industrial Plant Design							3 credits
01216772	Production Planning and Control							3 credits
01216773	Quality Control							3 credits
01216774	Industrial Work Study							3 credits
01216775	Operations Research							3 credits
01216776	Engineering Economy							3 credits
01216800	Computer Aided Design for Manufacturing							3 credits
01216906	Capstone Design Project							3 credits
01006004	Industrial Training							0 credit
Required Engineering Courses for Industrial Engineering in Track		27 credits	Required Engineering Courses for Production Engineering Track		27 credits	Required Engineering Courses for Food Production System Engineering Track		27 credits
01216956	Automation Systems	3 credits	01216956	Automation Systems	3 credits	01216840	Food Science and Technology	3 credits
01216777	Maintenance Engineering	3 credits	01216778	Tools Engineering & Press Die Design	3 credits	01216777	Maintenance Engineering	3 credits
01216951	Computer and Information Technology for Industrial Engineering	3 credits	01216779	Machine Tools and Computer Numerical Control	3 credits	01216843	Food Engineering	3 credits
01216952	Quality Management	3 credits	01216780	Metal Forming Process	3 credits	01216844	Instrumental and Control in Food Industry	3 credits
01216953	Industrial Simulation	3 credits	01216960	Engineering Metallurgy	3 credits	01216845	Hygienic Design in Food Process Systems	3 credits
01216954	Industrial Cost Analysis and Budgeting	3 credits	01216961	Control Systems and Electronics for Production Engineering	3 credits	01216846	Power Systems and Energy Management in Food Industry	2 credits

01216955	Pollution Control and Waste Management	3 credits	01216962	Polymers: Design and Production	3 credits	01216847	Design of Utility System	2 credits
01216xxx	Industrial Engineering Elective	3 credits	01216xxx	Industrial Engineering Elective	3 credits	01216xxx	Industrial Engineering Elective	3 credits
01216xxx	Industrial Engineering Elective	3 credits	01216963	Production Engineering Workshop	2 credits	01216xxx	Industrial Engineering Elective	3 credits
			01216965	Industrial Seminar	1 credit	01216841	Food Engineering Laboratory 1	1 credit
						01216842	Food Engineering Laboratory 2	1 credit
Elective Courses (Choose 1 Option)								
01216905	Project 1							3 credits
01006029	Cooperative Education							6 credits
01006005	Oversea Training							6 credits
Free Elective Courses								6 credits
xxxxxxxx	Free Elective							3 credits
xxxxxxxx	Free Elective							3 credits
Total								
Total credits required for Graduation (Project Option)								152 credits
Total credits required for Graduation (Cooperative Education/Oversea Training Option)								155 credits