

BS in Industrial Engineering – Sample Study Plan

Year 1 – Term 1 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	CMPS 101	Introduction to Programming	6
Compulsory (Gen Ed)	INDE 100	Introduction to Industrial Engineering	6
Compulsory	CIVE 121	Statics/Dynamics	6
Compulsory (Gen Ed)	MATH 100	Calculus and Analytic Geometry III	6
Compulsory (Gen Ed)	ENGL 100	Academic English	6

Year 1 – Term 1 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 200	Engineering Economy	6
Compulsory (Science/Math)	MATH 101	Differential Equations	6
Compulsory (Gen Ed)	MATH 201 OR MATH 202	Elementary Linear Algebra with Applications OR Linear Algebra I	6
Compulsory (Science/Math)	PHYS 100	Introductory Physics II	6
Gen Ed Elective		General Education Elective	6

Year 2 – Term 3 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 210	Operations Research I	6
Compulsory (Science/Math)	CHEM 100 OR CHEM 101	Chemical Principles OR Introduction to Environmental Chemistry	6
Compulsory (Science/Math)	STAT 101	Introduction to Probability and Random Variables	6
Compulsory (Gen Ed)	BIOL 101	Human Biology	6
Compulsory (Gen Ed)	ENGL 102	Technical English	6

Year 2 – Term 4 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 211	Operations Research II	6
Compulsory	INDE 220	Work Measurement and Methods Engineering	6
Compulsory (Science/Math)	MATH 203	Numerical Computing	6
Compulsory	BBAC 201	Fundamentals of Management and Organizational Behavior	6
Gen Ed Elective		General Education Elective	6

Year 3 – Term 5 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 340	Engineering Entrepreneurship	4
Compulsory	INDE 302	Human Factors Engineering	6
Compulsory	INDE 311	Discrete Event Simulation	6
Compulsory	INDE 401	Information Systems	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6

Year 3 – Term 6 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 300	Facility Planning and Material Handling	6
Compulsory	INDE 303	Statistical Quality Control	6
Compulsory	INDE 310	Production Planning and Inventory Control	6
Compulsory	BBAC 100	Financial Accounting	6
Gen Ed Elective		General Education Elective	6

Year 4 – Term 7 (Fall)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 460	Final Year Project I	6
Compulsory (Gen Ed)	INDE 330	Engineering Ethics	6
Compulsory	INDE 301	Introduction to Project Management	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6

Year 4 – Term 8 (Spring)

Course Type	Course Code	Course Title	ECTS
Compulsory	INDE 461	Final Year Project II	6
Compulsory	INDE 410	Data Analytics for Industrial Engineering	6
Compulsory	MECH 300	Manufacturing Processes I	6
Gen Ed Elective		General Education Elective	6
Gen Ed Elective		General Education Elective	6