

2018-2019 SAMPLE PARADIGM for a B.S. in Engineering Management Data Analytics Concentration

Offered jointly by the School of Business and the School of Engineering

This sample paradigm shows a normal 4-year progression towards a degree in engineering management with a concentration in data analytics. Some of the courses should be taken in this order due to prerequisite structures, others may be switched.

FRESHMAN YEAR - Semester I

ENG 111	English Composition I	3 crs.
Math 131	Calculus I	3 crs.
ECE 150	Intro to Multimedia DSP	3 crs.
ECE 101	Intro to Engineering Problem Solving	3 crs.
MIS 153	Intro to Computer Business Applications	3 crs.
CBU 101	Orientation	0 cr.
	<i>Total</i>	<i>15 crs.</i>

FRESHMAN YEAR - Semester II

ENG 112	English Composition II	3 crs.
MATH 141	Discrete Math	3 crs.
PHYS 150 & 150L	Physics I & Lab	4 crs.
ECE 112/L	Comp. in Engrg Problem Solving & Lab	4 crs.
ACCT 260	Financial Accounting	3 crs.
	<i>Total</i>	<i>17 crs.</i>

SOPHOMORE YEAR - SEMESTER I

MIS 231	Intro to Mgmt Information Systems	3 crs.
PHYS 251 & 251L	Physics II & Lab	4 crs.
PSYC 105	General Psychology	3 crs.
ENG	English Literature Elective	3 crs.
MATH 201	Applied Statistics	3 crs.
	<i>Total</i>	<i>16 crs.</i>

SOPHOMORE YEAR - Semester II

ECON 214	Principles of Microeconomics (GER)	3 crs.
ACCT 380	Financial Statement Analysis	3 crs.
MIS 351	Systems Analysis & Design	3 crs.
MGMT 227	Foundations of Management	3 crs.
BLAW 301	Business Law	3 crs.
	<i>Total</i>	<i>15 crs.</i>

JUNIOR YEAR - Semester I

STAT 221	Elementary Statistics	3 crs.
ECON 215	Principles of Macroeconomics	3 crs.
PHIL 223	Business Ethics	3 crs.
	General Education	3 crs.
	General Education	3 crs.
	<i>Total</i>	<i>15 crs.</i>

JUNIOR YEAR - Semester II

ECE 314	Engineering Economy	3 crs.
MKTG 311	Principles of Marketing	3 crs.
ME 121	Solids Modeling	3 crs.
MIS 481/481L	Information Security/Lab	4 crs.
ENGR 443	Intro to Data Science	3 crs.
	<i>Total</i>	<i>16 crs.</i>

SENIOR YEAR - Semester I

FIN 327	Financial Management I	3 crs.
ECE 400	The Compleat Engineer	3 crs.
ECE 471	Database Design	3 crs.
MIS 482/482L	Digital Forensics/Lab	4 crs.
ENGR 444	Software Programming for Engineers	3 crs.
	<i>Total</i>	<i>16 crs.</i>

SENIOR YEAR - Semester II

MIS 483	Security Compliance and Auditing	3 crs.
ENGR 445	Operations Research	3 crs.
ENG 371	Business Writing	3 crs.
	General Education	3 crs.
	<i>Total</i>	<i>12 crs.</i>

Total credits required for bachelor degree completion: 122