

School:		School of Engineering and School of Business Management										Student's Pathway									
Program:		Dual Degree Program (BEng in Industrial Engineering and Engineering Management and BBA in Global Business)																			
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks						
BEng in Industrial Engineering and Engineering Management																					
Engineering Fundamental Courses																					
COMP	1023	Note: COMP1023 OR COMP2011 OR COMP2012H	3.5											3	Students should take COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020						
COMP	2011	Introduction to Python Programming	4		3																
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																		
CHEM	1012	Note: CHEM1012 OR PHYS1112 OR PHYS1312	3												3						
PHYS	1112	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		3																
PHYS	1312	General Physics I with Calculus	3																		
MATH	1013	Note: (MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1025)	4.6												6						
MATH	1014	Calculus I	3																		
MATH	1020	Accelerated Calculus	4		3	3															
MATH	1023	Honors Calculus I	3																		
MATH	1024	Honors Calculus II	3																		
MATH	2011	Introduction to Multivariable Calculus	3				3							3	3						
MATH	2111	Matrix Algebra and Applications	3			3								3	3						
Required Credits for Engineering Fundamental Courses			16-20	6	6	3	3	0	0	0	0	0	0	0	18						
Major Required Courses and Electives																					
IEDA	1010	Academic and Professional Development I	0			0	0							0							
IEDA	1020	Academic and Professional Development II	0					0	0					0							
IEDA	1901	Industrial Training and Experience	0											0							
IEDA	2010	Introduction of Industrial Engineering and Decision Analytics	3			3								3							
IEDA	2520	Probability for Engineers	3			3								3							
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM300						
IEDA	3010	Prescriptive Analytics	3					3						3							
IEDA	3230	Engineering Economics and Accounting	3			3								3							
IEDA	3250	Stochastic Models	3					3						3							
IEDA	3300	Industrial Data Systems	3			3								3							
IEDA	4100	Integrated Production Systems	3							3				3	Substitute ISOM 2700						
IEDA	4130	System Simulation	3							3				3							
IEDA	4901	Note: IEDA 4901 OR IEDA 4960	6												6						
IEDA	4960	Final Year Thesis	6																		
IEDA	4960	Industrial Engineering and Engineering Management Final Year Project	6																		
ECON	2103	Note: ECON 2103 OR ECON 2113	3												3						
ECON	2113	Principles of Microeconomics	3					3													
IEDA	4960	Industrial Engineering Electives (Courses from the specified elective list)	21							3	6	6	6	21							
BEng in Industrial Engineering and Engineering Management Major Requirements			57	0	0	12	3	9	6	3	6	6	6	57							
BBA in Global Business																					
School Requirements																					
ACCT	1010	Principles of Accounting I	3	3										3							
ACCT	2200	Principles of Accounting II	3								3			3							
ECON	2103	Note: ECON 2103 OR ECON 2113	3												0						
ECON	2113	Principles of Microeconomics	3		3																
ECON	3123	Note: ECON 3123 OR ECON 3123	3												3						
ECON	3123	Macroeconomics	3					3													
FINA	2303	Financial Management	3			3								3							
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 2011 or COMP 2012 are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023, COMP 2011 or COMP 2012 instead of ISOM 2010.						
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DEP students who have taken and passed COMP 1023, COMP 2011 or COMP 2012. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.						
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA2540						
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	1							
ISOM	2700	Operations Management	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA4100						
MARK	2120	Marketing Management	3			3								0							
MGMT	2010	Business Ethics and the Individual	2						2					2							
MGMT	2110	Organizational Behavior	3				3							3							
MGMT	2120	Business Ethics and Social Responsibility	2							2				2							
MATH	1003	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3.4												0						
MATH	1013	Calculus and Linear Algebra	3		(3)																
MATH	1013	Calculus I	3																		
MATH	1020	Accelerated Calculus	4																		
MATH	1023	Honors Calculus I	3																		
Required Credits for School Requirements			39-40	3	0	0	9	3	2	2	3	0	1	23							
Major Required Courses and Electives																					
GBUS	1000	Global Leadership Development	0					0	0	0	0	0	0	0							
GBUS	2010	Global Business Analysis	3						3												
GBUS/ISOM	2040	Note: GBUS 2040 OR SMRT 2100-2110	1.4												1						
ISOM	2100-2110	Environmental, Social, and Governance (ESG) Corporate Project	1						1	[1]											
GBUS/ISOM	3030	Note: GBUS 3030 OR ISOM 4780	3.4												3						
ISOM	4780	Global Business Case Studies	4							3		[2]									
GBUS	4910	Integrated Planning and Execution	3																		
GBUS	4910	Capstone Project	4										4	[4]	4						
GBUS	4960	Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill management, urban and global studies at ISOM are eligible and the combined credits are effective)	15								6	3	6	15							
Required Credits for Major Required Courses and Electives			26-30	0	0	0	0	0	4	3	6	7	6	26							
Additional Requirement for Dual Degree																					
Requirements for Dual Degree Program																					
TEMG	1011	T&M Professional Activities I	0	0	0	0								0							
TEMG	1012	T&M Professional Activities II	0			0	0							0							
TEMG	1013	T&M Professional Activities III	0					0	0					0							
TEMG	1014	T&M Professional Activities IV	0							0	0			0							
TEMG	1015	T&M Professional Activities V	0									0	0	0							
TEMG	3950	T&M Case Analysis and Product Innovation	3		3									3							
TEMG	4950	T&M Corporate Consulting Project	3.5					4						4							
Required Credits for Additional Requirements			7	0	3	0	0	4	0	0	0	0	0	7							
University Common Core Requirement																					
CORE	C1 - C9	U CORE - Others	21			3	3			3	9	3		21							
CORE	C1 & C2	U CORE - English Language	6	3	3									6							
HMW	1905	Behavioral Foundations of University: Ethics, Habits, Mindsets, and Wellness	3	1	2									3							
Sub-total for University CORE			30	4	5	3	3	0	3	9	3	6	0	36							
161																					