

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 Economics)														Remarks	
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		
BEng in Industrial Engineering and Engineering Management																	
Engineering Fundamental Courses																	
COMP COMP COMP	1023 2011 2012H	Note: COMP1023 OR COMP2011 OR COMP2012H Introduction to Python Programming Programming with C++ Honors Object-Oriented Programming and Data Structures	3-5 3 4 5		3										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	
CHEM PHYS PHYS	1012 1112 1312	Note: CHEM1012 OR PHYS1112 OR PHYS1312 General Chemistry B: Atomic Structure, Molecules, and Bonding Theories General Physics I with Calculus Honors General Physics I	3 3 3 3	3											3		
MATH MATH MATH MATH MATH	1013 1014 1020 1023 1024	Note: [(MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus I Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II	4-6 3 3 4 3 3	3	3										6	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees	
MATH	2011	Introduction to Multivariable Calculus	3				3								3		
MATH	2111	Matrix Algebra and Applications	3			3									3		
Required Credits for Engineering Fundamental Courses				16-20	6	6	3	3	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 ISOM2500	
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 IEDA IEDA	 4901 4960	Note: IEDA 4901 OR IEDA 4960 Final Year Thesis Industrial Engineering and Engineering Management Final Year Project	6 6 6										3	3	6		
ECON ECON ECON	 2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3 3					3							3		
IEDA		Industrial Engineering Electives (Courses from the specified elective list)	21							3	6	6	6	6	21		
BEng in Industrial Engineering and Engineering Management Major Requirements				57	0	0	12	3	9	6	3	6	9	9	57		
BBA in Economics																	
School Requirements																	
ACCT	2010	Principles of Accounting I	3	3											3		
ACCT	2200	Principles of Accounting II	3								3				3		
ECON ECON ECON	 2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3 3		(3)										0	ECON 2103 / 2113 / 2123 is a major pre-requisite	
ECON ECON ECON	 2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3 3					3							3		
FINA	2303	Financial Management	3				3								3		
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 1022P, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.	
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1023 or COMP 1029P or COMP2011 or COMP2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA 2540	
ISOM	2600	Introduction to Business Analytics	1											1	1		
ISOM	2700	Operations Management	3	-	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA 4100	
MARK	2120	Marketing Management	3				3								3		
MGMT	2010	Business Ethics and the Individual	2						2						2		
MGMT	2110	Organizational Behavior	3				3								3		
MGMT	2130	Business Ethics and Social Responsibility	2										2		2		
MATH MATH MATH MATH	 1003 1013 1020 1023	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IB Accelerated Calculus Honors Calculus I	3-4 3 4 3 3	(3)											0	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees	
Required Credits for School Requirements				39-40	3	0	0	9	3	2	0	3	2	1	23		
Major Required Courses and Electives																	
ECON	3014	Managerial Microeconomics	4					4							4		
ECON	3024	Managerial Macroeconomics	4						4						4		
ECON	3334	Introduction to Econometrics	4							4					4		
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3		11		
Required Credits for Major Required Courses and Electives				23	0	0	0	0	4	4	4	4	4	3	23		
Additional Requirement for Dual Degree																	
Requirements for Dual Degree Program																	
TEMG	1011	T&M Professional Activities I	0	0	0										0	To graduate, students should complete ALL requirements as specified for DDP.	
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	0	4	0	0	0	0	7		
University Common Core Requirement																	
CORE	C3 - C9	U CORE - Others	21		3		3				9	3		3	21		
CORE	C1 & C2	U CORE - English Language	6	3	3										6		
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2										3		
Sub-total for University CORE				30	4	8	0	3	0	0	9	3	0	3	30		
					Term load (excl. free credits)										158		
					13	17	15	18	16	16	16	16	15	16			
					158##												

Notes:  
( ) indicates the reuse of the same course to fulfill more than one requirement.  
\* Courses offered in winter term  
^ Courses offered in summer term  
--- denotes the course/requirement is either waived or substituted  
## To graduate, students should complete all requirements as specified for DDP.

\*\*Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.