

School			School of Engineering and School of Business Management		Selection of BEng major		Selection of BBA major		Student's Pathway												Remarks
Program:			Dual Degree Program (BEng in Decision Analytics and BBA in Marketing)																		
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	Year 6 Fall	Year 6 Spring	Sub-tot					
BEng in Decision Analytics																					
Engineering Fundamental Courses																					
COMP	1023	New: 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	New: -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	Calculus I	4-6														6	DOP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
MATH	1014	Calculus II	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					
MATH	2111	Matrix Algebra and Applications	3				3									3					
Required Credits for Engineering Fundamental Courses			10-20	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	This course will also be used to substitute ISOM2020				
IEDA	2520	Probability for Engineers	3													3					
IEDA	2640	Statistics for Engineers	3			3										3					
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	3600	Prescriptive Analytics	3					3								3					
IEDA	4001	New: IEDA4001 OR IEDA4020	6													6					
IEDA	4020	Final Year Thesis	6										3	3		6					
IEDA	4020	Decision Analytics Final Year Project	6													6					
ECON	2103	New: ECON 103 OR ECON2113	3					3								3					
ECON	2113	Principles of Microeconomics	3						3							3	15				
ECON	2113	Principles of Microeconomics	3													3					
IEDASOM		Area Electives (3 courses from the specified elective list, of which at 5 courses should be taken from the sub-area)	15						3	6	3	3				15					
BEng in Decision Analytics Major Requirements			48	0	0	12	3	0	0	6	3	6	3	48							
BBA in Marketing																					
School Requirements																					
ACCT	1010	Principles of Accounting I	3	3												3					
ACCT	2020	Principles of Accounting II	3									3				3					
ECON	2103	New: ECON 2103 OR ECON 2113	3			(5)										0					
ECON	2113	Principles of Microeconomics	3													3	0				
ECON	2113	Principles of Microeconomics	3													3					
ECON	3123	New: ECON 3123 OR ECON 3123	3													3					
ECON	3123	Macroeconomic Theory I	3													3	3				
FINA	2203	Financial Management	3			3										3					
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	-	0					
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DOP students who have taken and passed COMP 1023, COMP 2011 or COMP 2012H. These COMP courses are waived or more advanced coding (Python) courses as ISOM 2020.				
ISOM	2600	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	-	-	0					
ISOM	2605	Introduction to Business Analytics	1													1					
ISOM	2700	Operations Management	3													3	Substituted by IEDA2640				
MARK	2120	Marketing Management	3			3					3					3					
MARK	2010	Business Ethics and the Individual	2				2									2					
MGMT	2110	Organizational Behavior	3			3										3	2				
MGMT	2130	Business Ethics and Social Responsibility	2							2						2					
MATH	1003	Calculus and Linear Algebra	3-4													3					
MATH	1013	Calculus I	3	(5)												0	DOP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees				
MATH	1020	Accelerated Calculus	4													4					
MATH	1023	Honors Calculus I	3													3					
Required Credits for School Requirements			30-40	3	3	0	0	2	3	2	3	3	1	26							
Major Required Courses and Electives																					
MARK	3220	Marketing Research	4				4									4					
MARK	3420	Consumer Behavior	4					4								4					
MARK	4210	Strategic Marketing	4						4							4					
MARK		MARK 3010 or above Electives (Any 3 courses of the subject and level as specified)	12							4	4	4	4	4	12		24				
Required Credits for Major Required Courses and Electives			24	0	0	0	0	4	4	4	4	4	4	12							
Additional Requirements for Dual Degree																					
Requirements for Dual Degree Program																					
TEMS	1011	TEMS Professional Activities I	0	0	0	0										0	To graduate, students should complete ALL requirements as specified for DOP				
TEMS	1012	TEMS Professional Activities II	0			0	0									0					
TEMS	1013	TEMS Professional Activities III	0					0	0							0					
TEMS	1014	TEMS Professional Activities IV	0							0	0					0					
TEMS	1015	TEMS Professional Activities V	0									0	0			0					
TEMS	3900	TEMS Case Analysis and Product Innovation	3			3										3					
TEMS	4000	TEMS Corporate Consulting Project	3-5				4									4					
Required Credits for Additional Requirements			7	0	3	0	4	0	0	0	0	0	0	0	7						
University Common Core Requirement																					
CORE	C1 - C9	(1) CORE - Chinese	21						3	3	6	3	6	3	21						
CORE	C1 & C2	(1) CORE - English Language	6	3	3											6					
HEAV	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2											3					
Sub-total for University CORE			30	4	5	0	0	0	3	3	6	3	6	3	30						
Term load (incl. free credits)																					
13 17 10 16 15 16 15 16 16 14																					
153#																					
183																					

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 currency)

>> 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.