

School		School of Engineering and School of Business Management		← Declaration of BEng major		← Declaration of BBA major		Student's Pathway										Remarks	
Program:		Dual Degree Program (BEng in Decision Analytics and BBA in Finance)																	
Course Offering Dept. (course code, section)	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	Subtotal				
BEng in Decision Analytics																			
Engineering Fundamental Courses																			
COMP 1023	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	2011	Introduction to Python Programming		4	3										3				
COMP 2012H	2012H	Honors Object Oriented Programming and Data Structures		5											5				
CHEM 1112	1112	New: CHEM1112 OR PHYS1112 OR PHYS1312		3											3				
PHYS 1312	1312	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3	3										3				
PHYS 1312	1312	General Physics I with Calculus		3											3	6			
MATH 1013	1013	New: [MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]		4-6											4-6				
MATH 1014	1014	Calculus I		3	3	3									3				
MATH 1020	1020	Accelerated Calculus		4											4				
MATH 1023	1023	Honors Calculus I		3											3				
MATH 1024	1024	Honors Calculus II		3											3	6			
MATH 2011	2011	Introduction to Multivariable Calculus		4-6											4-6				
MATH 2111	2111	Matrix Algebra and Applications		4											4				
Required credits for Engineering Fundamental Courses				16-20	3	3	3	3	0	0	0	0	0	0	16				
Major Required Courses and Electives																			
EDIA 1010	1010	Academic and Professional Development I		0	0	0	0								0	This course will also be used to substitute ISOM2000			
EDIA 1020	1020	Academic and Professional Development II		0				0	0						0				
EDIA 1901	1901	Industrial Training and Experience		0											0				
EDIA 2010	2010	Introduction of Industrial Engineering and Decision Analytics		3	3										3				
EDIA 2520	2520	Probability for Engineers		3			3								3				
EDIA 2540	2540	Statistics for Engineers		3			3								3				
EDIA 3010	3010	Prescriptive Analytics		3				3							3				
EDIA 3210	3210	Engineering Economics and Accounting		3					3						3				
EDIA 3250	3250	Stochastic Models		3					3						3				
EDIA 3300	3300	Industrial Data Systems		3			3								3				
EDIA 3500	3500	Predictive Analytics		3					3						3				
EDIA 3501	3501	New: EDIA3501 OR EDIA4020		6											6				
EDIA 4001	4001	First Year Thesis		6									3	3	6				
EDIA 4020	4020	Decision Analytics First Year Project		6											6				
EDIA 4020	4020	New: ECON2110 OR ECON2113		3											3				
ECON 2110	2110	Principles of Microeconomics		3		3									3				
ECON 2113	2113	Microeconomics		3											3				
EDIASOM		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)		15							3	6	3	3	15				
BEng in Decision Analytics Major Requirements				48	3	3	3	3	0	0	0	0	0	0	48				
BBA in Finance																			
School Requirements																			
ACCT 2010	2010	Principles of Accounting I		3	3										3	FINA 2303 is a major pre-requisite COMP 1023, COMP 2011 or COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023, COMP 2011 or COMP 2012H instead of ISOM 2010. ISOM 2020 is waived for DOP students who have taken and passed COMP 1023, COMP 2011 or COMP 2012H. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020. Substituted by EDIA 2540			
ACCT 2200	2200	Principles of Accounting II		3			3								3				
ECON 2110	2110	New: ECON2110 OR ECON2113		3				(3)							0				
ECON 2113	2113	Principles of Microeconomics		3											3				
ECON 2113	2113	Microeconomics		3											3				
ECON 2123	2123	New: ECON2123 OR ECON3123		3						3					3				
ECON 3123	3123	Microeconomics		3											3				
ECON 3123	3123	Macroeconomics Theory I		3											3				
FINA 2303	2303	Financial Management		3				3							3				
ISOM 2010	2010	Introduction to Information Systems		3	-	-	-	-	-	-	-	-	-	-	0				
ISOM 2020	2020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-	0				
ISOM 2500	2500	Business Statistics		3	-	-	-	-	-	-	-	-	-	-	0				
ISOM 2600	2600	Introduction to Business Analytics		1											1				
ISOM 2700	2700	Operations Management		3								3			3				
MARK 2120	2120	Marketing Management		3				3							3				
MGMT 2010	2010	Business Ethics and the Individual		2					2						2				
MGMT 2110	2110	Organizational Behavior		3				3							3				
MGMT 2130	2130	Business Ethics and Social Responsibility		2							2				2				
MATH 1003	1003	New: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023		3-4											3-4				
MATH 1003	1003	Calculus and Linear Algebra		3											3				
MATH 1013	1013	Calculus I		3		(3)									0				
MATH 1020	1020	Accelerated Calculus		4											4				
MATH 1023	1023	Honors Calculus I		3											3				
Required Credits for School Requirements				39-40	3	0	3	0	2	3	2	3	0	1	28				
Major Required Courses and Electives																			
FINA 3001	3001	Key Skills for Finance Professionals (A)		1					1						1	FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) If DOP students took COMP 1023 in BEng requirement, they are required to enroll ISOM 3030			
FINA 3103	3103	Intermediate Investments		3					3						3				
FINA 3203	3203	Derivative Securities		3						3					3				
FINA 3303	3303	Intermediate Corporate Finance		3							3				3				
FINA 3810	3810	Bloomberg Market Concepts Certification		0					0						0				
FINA 3810	3810	New: (ACCT 3010 AND ACCT 3020) OR ACCT 3030		3-6											3-6				
ACCT 3010	3010	Financial Accounting I		3							3				3				
ACCT 3020	3020	Financial Accounting II		3											3				
ACCT 3030	3030	Intermediate Financial Accounting for Non-Accounting Majors		3											3				
ISOM 3230	3230	New: ISOM 3230 OR ISOM 3400		3								3			3				
ISOM 3400	3400	Business Programming in VBA		3											3				
ISOM 3400	3400	Business Applications Development in Python		3											3				
FINA 3000	3000	FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)		9							3	3	3	3	9				
Required Credits for Major Required Courses and Electives				25-28	0	0	0	0	0	4	6	0	3	3	25				
Additional Requirement for Dual Degree																			
Requirements for Dual Degree Program																			
TEMS 1011	1011	T&M Professional Activities I		0	0	0									0	To graduate, students should complete ALL requirements as specified for DOP.			
TEMS 1012	1012	T&M Professional Activities II		0			0	0							0				
TEMS 1013	1013	T&M Professional Activities III		0					0	0					0				
TEMS 1014	1014	T&M Professional Activities IV		0							0	0			0				
TEMS 1015	1015	T&M Professional Activities V		0									0	0	0				
TEMS 3950	3950	T&M Case Analysis and Product Innovation		3		3									3				
TEMS 4950	4950	T&M Corporate Computing Project		3-5								4			4				
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	7				
University Common Core Requirements																			
CORE 101-103	101-103	U-CORE - Core		21					3		3	3	6	6	21	Sub-total for University CORE			
CORE 214 & 215	214 & 215	U-CORE - English Language		6	3	3									6				
HEAW 1905	1905	Behavioral Foundations of University Education: Health, Mindsets, and Wellness		3	1	2									3				
Sub-total for University CORE				30	4	5	0	0	0	3	0	3	6	6	30				
Term total (omit free credits)																			
154###																			
154																			