

School:		School of Engineering and School of Business Management		<< Selection of BEng major		<< Declaration of BEng major		<< Selection of BBA major		Student's Pathway										Remarks
Program:		Dual Degree Program (BEng in Decision Analytics and BBA in Finance)																		
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	Graduation			
BEng in Decision Analytics																				
Engineering Fundamental Courses																				
COMP 2011	1023	New: COMP1023 OR COMP2011 OR COMP2012H		3-6													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		
		Introduction to Python Programming		3		3														
		Programming with C++		4																
		Honors Object-Oriented Programming and Data Structures		3																
CHEM 1012	1012	New: CHEM1012 OR PHYS1112 OR PHYS1312		3																
PHYS 1112	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3	3												3			
PHYS 1312	1112	General Physics with Calculus		3																
		Honors General Physics I		3																
MATH 1013	1013	New: (MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1026)		4-6																
MATH 1014	1014	Calculus I		3		3	3										6			
MATH 1020	1020	Accelerated Calculus		4																
MATH 1023	1023	Honors Calculus I		3																
MATH 1024	1024	Honors Calculus II		3																
MATH 2011	2011	Introduction to Multivariable Calculus		3				3									3			
MATH 2111	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	0	0	18			
Major Required Courses and Electives																				
IEDA 1010	1010	Academic and Professional Development I		0				0	0								0			
IEDA 1020	1020	Academic and Professional Development II		0					0	0							0			
IEDA 1001	1001	Industrial Training and Experience		0													0			
IEDA 2010	2010	Introduction of Industrial Engineering and Decision Analytics		3			3										3			
IEDA 2520	2520	Probability for Engineers		3			3										3			
IEDA 2540	2540	Statistics for Engineers		3				3	3								3			
IEDA 3010	3010	Prescriptive Analytics		3					3								3			
IEDA 3030	3030	Engineering Economics and Accounting		3													3			
IEDA 3230	3230	Stochastic Models		3					3								3			
IEDA 3300	3300	Industrial Data Systems		3			3										3			
IEDA 3500	3500	Predictive Analytics		3						3							3			
		New: IEDA4021 OR IEDA4020		6						3										
IEDA 4021	4021	Final Year Thesis		6											3	3	6			
IEDA 4020	4020	Decision Analytics Final Year Project		6																
		New: ECON2103 OR ECON2113		3																
ECON 2103	2103	Principles of Microeconomics		3					3								3			
ECON 2113	2113	Microeconomics		3																
IEDA/ISOM		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	0	0	12	3	0	6	6	3	6	3			48			
BBA in Finance																				
School Requirements																				
ACCT 2010	2010	Principles of Accounting I		3	3				3								3			
ACCT 2000	2000	Principles of Accounting II		3				3												
		New: ECON 2103 OR ECON 2113		3																
ECON 2103	2103	Principles of Microeconomics		3			(3)										0			
ECON 2113	2113	Microeconomics		3																
		New: ECON 2120 OR ECON 3123		3																
ECON 2120	2120	Microeconomics		3						3							3			
ECON 3123	3123	Microeconomics: Theory I		3																
FINA 2303	2303	Financial Management		3				3									3			
FINA 2303	2303	Financial Management		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				1			
ISOM 2100	2100	Marketing Management		3				3									3			
MGMT 2010	2010	Business Ethics and the Individual		3					2								2			
MGMT 2110	2110	Organizational Behavior		3			3										3			
MGMT 2130	2130	Business Ethics and Social Responsibility		2							2						2			
		New: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023		3-4																
MATH 1003	1003	Calculus and Linear Algebra		3																
MATH 1013	1013	Calculus I		3		(3)											0			
MATH 1020	1020	Accelerated Calculus		4																
MATH 1023	1023	Honors Calculus I		3																
Required Credits for School Requirements				38-40	3	0	3	0	2	3	2	3	0	0	1		28			
Major Required Courses and Electives																				
FINA 3001	3001	Key Skills for Finance Professionals (A)		1					1								1			
FINA 3103	3103	Intermediate Investments		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			
		New: (ACCT 3010 AND ACCT 3020) OR ACCT 3030		3-6																
ACCT 3010	3010	Financial Accounting I		3								3					3			
ACCT 3020	3020	Financial Accounting II		3																
ACCT 3030	3030	Intermediate Financial Accounting for Non-Accounting Majors		3																
		New: ISOM 3230 OR ISOM 3400		3																
ISOM 3230	3230	Business Programming in VBA		3							3						3			
ISOM 3400	3400	Business Applications Development in Python		3																
FINA 3400	3400	FINA 3500 (not on above Electives list (3 courses of the subject and level as specified))		6								3	3	3	3	3	9			
Required Credits for Major Required Courses and Electives				25-28	0	0	0	0	0	4	6	6	3	3	3	3	25			
Additional Requirement for Dual Degree																				
Requirements for Dual Degree Program																				
TEMD 1011	1011	T&M Professional Activities I		0	0	0	0										0			
TEMD 1012	1012	T&M Professional Activities II		0				0	0								0			
TEMD 1013	1013	T&M Professional Activities III		0					0	0							0			
TEMD 1014	1014	T&M Professional Activities IV		0							0	0					0			
TEMD 1015	1015	T&M Professional Activities V		0									0	0			0			
TEMD 3050	3050	T&M Case Analysis and Product Innovation		3		3											3			
TEMD 4020	4020	T&M Corporate Consulting Project		3-6											4		4			
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	0	7				
University Common Core Requirements																				
CORE 101-104	101-104	UCORE: Core		21					3		3	3	6	6			21			
CORE C1 & C2	UCORE: English Language			6	3	3											6			
HBWV 1305	1305	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3	1	2											3			
Sub-total for University CORE				30	4	5	0	0	3	0	3	9	6	6	6		30			
Term total (incl. free credits)																				
154##																				
164																				