

				<< Declaration of BEng major		<< Declaration of BBA major																	
School:		School of Engineering and School of Business Management		Student's Pathway																			
Program:		Dual Degree Program (BEng in Mechanical Engineering 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	Year 7 Fall	Year 7 Spring	Remarks					
BEng in Mechanical Engineering																							
Engineering Fundamental Courses																							
COMP	1023	Note: COMP1023 OR COMP2011 OR COMP202H	3-5															Students should take COMP 1023, COMP 2011 or COMP 202H which will also be used to substitute ISOM 2010 and to waive ISOM 2020					
COMP	2011	Introduction to Python Programming	3	3																			
COMP	202H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4 5																				
MATH	1013	Note: [MATH 1013 OR MATH1023] AND [MATH 1014 OR MATH 1023] OR [MATH 1020]	4-7															DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees					
MATH	1014	Calculus I	3	3	3																		
MATH	1020	Accelerated Calculus	3																				
MATH	1023	Honors Calculus I	3																				
MATH	1024	Honors Calculus II	3																				
MATH	2011	Introduction to Multivariable Calculus	3			3												3					
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351	3																				
MATH	2350	Matrix Algebra and Applications	3				3											3					
MATH	2351	Applied Linear Algebra and Differential Equations	3																				
MATH	2351	Introduction to Differential Equations	3																				
PHYS	1112	Note: PHYS1112 OR PHYS1312	3																				
PHYS	1312	General Physics I with Calculus	3		3													3					
PHYS	1312	Honors General Physics I	3																				
CHEM	1008	Science 1000-level course (1 course of the specified course list)	3-4																				
CHEM	1012	Introductory Chemistry	3		(3)													0					
LIFE	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3																				
PHYS	1101	General Biology I	3																				
PHYS	1101	Introductory Physics	4																				
Required Credits for Engineering Fundamental Courses				19-25	6	6	3	3	0	0	0	0	0	0	0	0	0	18					
Major Required Courses and Electives																							
MECH	1901	Academic and Professional Development I	0	0	0	0	0											0					
MECH	1910	Foundations of Mechanical and Aerospace Engineering	3	3														3					
MECH	1990	Industrial Training	0			0*	0*											0					
MECH	2002	Academic and Professional Development II	0					0	0	0	0	0	0					0					
MECH	2005	Statics and Dynamics	3			3												3					
MECH	2040	Solid Mechanics I	3				3											3					
MECH	2210	Fluid Mechanics	3				3											3					
MECH	2310	Thermodynamics	3			3												3					
MECH	2410	Engineering Materials I	3				3											3					
MECH	2520	Design and Manufacturing I	3				3											3					
MECH	3030	Mechanisms of Machinery	3					3										3					
MECH	3030	Mechanisms of Machinery	3																				
MECH	3200	Note: MECH3200 OR MECH3420 OR MECH3710	3																				
MECH	3420	Energy Conversion	3					3										3					
MECH	3710	Engineering Materials II	3																				
MECH	3710	Manufacturing Processes and Systems	3																				
MECH	3810	Heat Transfer	3					3										3					
MECH	3810	Control Principles	3					3										3					
MECH	3830	Electrical Technology	3						3									3					
MECH	3830	Laboratory	3															3					
MECH	3907	Mechatronics Design and Prototyping	3						3									3					
MECH	4000	Final Year Design Project	6										3	3	6			6					
ELEC	7420	Basic Electronics	3			3												3					
BEng in Mechanical Engineering Major Requirements				3	0	9	12	12	9	0	0	0	3	3	3	51							
BBA in Finance																							
School Requirements																							
ACCT	2010	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																				
ECON	2113	Principles of Microeconomics	3			3												3					
ECON	2113	Microeconomics	3																				
ECON	2123	Note: ECON 2123 OR ECON 3123	3																				
ECON	3123	Macroeconomics	3							3								3					
ECON	3123	Macroeconomic Theory I	3																				
FINA	2303	Financial Management	3			3												3					
FINA	2303	Financial Management	3																				
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
ISOM	2800	Business Statistics	3	3														3					
ISOM	2800	Introduction to Business Analytics	1					1										1					
ISOM	2700	Operations Management	3											3				3					
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	1003	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																				
MATH	1013	Calculus and Linear Algebra	3			(3)												0					
MATH	1013	Calculus II	3																				
MATH	1020	Accelerated Calculus	4																				
MATH	1023	Honors Calculus I	3																				
Required credits for School Requirements				39-40	6	3	6	3	1	3	3	0	5	2	32								
Major Required Courses and Electives																							
FINA	3001	Key Skills for Finance Professionals (A)	1						1									1					
FINA	3103	Intermediate Investments	3						3									3					
FINA	3203	Derivative Securities	3							3								3					
FINA	3303	Intermediate Corporate Finance	3								3							3					
FINA	3810	Bloomberg Market Concepts Certification	0						0									0					
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6																				
ACCT	3020	Financial Accounting I	3							3								3					
ACCT	3030	Financial Accounting II	3																				
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3																				
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3																				
ISOM	3400	Business Programming in VBA	3							3								3					
ISOM	3400	Business Applications Development in Python	3											3	3	3	9						
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	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																							
TEMG	1011	T&M Professional Activities I	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						0					
TEMG	1015	T&M Professional Activities V	0										0	0	0			0					
TEMG	3050	T&M Case Analysis and Product Innovation	3				3											3					
TEMG	4050	T&M Corporate Consulting Project	3-5										4					4					
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	0	4	4	0	0	7						
University Common Core Requirements																							
CORE	C3 - C9	U CORE - Others	21								6	6	3	6	21								
CORE	C1 & C2	U CORE - English Language	6	3	3													6					
HMAW	1005	Behavioral Foundations of University Education: Habits, Mindsets, and Willpower	3	1	2													3					
Sub-total for University CORE				30	4	5	0	0	0	0	0	6	6	3	6	30							
					10	17	18	18	17	18	15	13	14	14				163					
																			163###				