

				<< Selection of BEng major		<< Declaration of BEng major		<< Selection of BBA major											
School:		School of Engineering and School of Business Management		Student's Pathway										Remarks					
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 2 Fall	Year 3 Spring	Year 3 Fall	Year 4 Spring	Year 4 Fall	Year 5 Spring	Sub-total					
BEng in Mechanical Engineering																			
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					
MATH MATH MATH MATH MATH	1013 1014 1020 1023 1024	Note: [MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1020] OR [MATH 1020]	4-7 3 3 4 3	3	3								6	DOP 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 Multivariate Calculus	3			3							3						
MATH MATH MATH	2111 2350 2351	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications Applied Linear Algebra and Differential Equations Introduction to Differential Equations	3 3 3				3						3						
PHYS PHYS	1112 1312	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I	3 3		3								3						
CHEM CHEM PHYS	1008 1012 1101	Science 1000-level course (1 course of the specified course list) Introductory Chemistry General Chemistry B: Atomic Structure, Molecules, and Bonding Theories General Biology I Introductory Physics	3-4 3 3 3 4		3								3						
Required Credits for Engineering Fundamental Courses				19-25	6	9	3	3	0	0	0	0	0	21					
Major Required Courses and Electives																			
MECH	1001	Academic and Professional Development I	0	0	0	0	0						0						
MECH	1090	Foundations of Mechanical and Aerospace Engineering	2	3									2						
MECH	1095	Industrial Training	0			0*	0*						0						
MECH	2002	Academic and Professional Development II	0					0	0	0	0	0	0						
MECH	2020	Statics and Dynamics	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	2020	Design and Manufacturing I	3				3						3						
MECH	3030	Mechanisms of Machinery	3					3					3						
		Note: MECH3030 OR MECH3420 OR MECH3710	3										3						
MECH	3300	Energy Conversion	3					3					3						
MECH	3420	Engineering Materials II	3										3						
MECH	2710	Manufacturing Processes and Systems	3										3						
MECH	3310	Heat Transfer	3					3					3						
MECH	3010	Control Principles	3						3				3						
MECH	3030	Electrical Technology	3						3				3						
MECH	3030	Laboratory	3							3			3						
MECH	3007	Mechatronics Design and Prototyping	3							3			3						
MECH	4000	Final Year Design Project	6									3	3	6					
ELEC	2420	Basic Electronics	3				3						3						
BEng in Mechanical Engineering Major Requirements				3	0	9	12	12	9	0	0	0	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		Note: ECON 2103 OR ECON 2113	3										3						
ECON	2103	Principles of Microeconomics	3			3							3						
ECON	2113	Principles of Microeconomics	3										3						
ECON		Note: ECON 2123 OR ECON 3123	3										3						
ECON	2123	Macroeconomics	3							3			3						
ECON	3123	Macroeconomics Theory I	3										3						
FINA	2303	Financial Management	3			3							3	FINA 2003 is a major pre-requisite					
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023 or COMP2011 or COMP2012H					
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DOP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H. The COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
ISOM	2000	Business Statistics	3	3									-	3					
ISOM	2000	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		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4										0	DOP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees					
MATH	1003	Calculus and Linear Algebra	3										3						
MATH	1013	Calculus II	3	(3)									3						
MATH	1020	Accelerated Calculus	4										3						
MATH	1023	Honors Calculus I	3										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	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						
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6										3						
ACCT	3010	Financial Accounting I	3							3			3						
ACCT	3020	Financial Accounting II	3										3						
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3										3						
		Note: ISOM 3230 OR ISOM 3400	3										3						
ISOM	3230	Business Programming in VBA	3						3				3	If DOP students took COMP 1023 in BEng requirement, they are required to enroll ISOM 3230					
ISOM	3400	Business Applications Development in Python	3								3	3	3						
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3						
Required Credits for Major Required Courses and Electives				25-28	0	0	0	0	0	4	6	6	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						
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	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 Wellness	3	1	2									3					
Sub-total for University CORE				30	4	5	0	0	0	0	0	6	6	3	6	30			
				Term load (excl. free credits)															
				10	20	10	10	17	10	15	13	14	14		168				
				166##															