

School:				School of Engineering and School of Business Management																<< Selection of BEng major										<< Declaration of BEng major										<< Selection of BBA major									
Program:				Dual Degree Program (BEng in Mechanical Engineering and BBA in General Business Management)																Student's Pathway										Remarks																			
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-total																																	
BEng in Mechanical Engineering																																																	
Engineering Fundamental Courses																																																	
COMP	1023	Note: COMP1023 OR COMP2011 OR COMP2012H	3-5																																														
COMP	2011	Introduction to Python Programming	3	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																																
COMP	2012H	Programming with C++	4																																														
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																																														
MATH	1013	Note: (MATH 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1020)	4-6																																														
MATH	1014	Calculus I	3	3	3													DOP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees																															
MATH	1020	Accelerated Calculus	3																																														
MATH	1023	Honors Calculus I	4																																														
MATH	1024	Honors Calculus II	3																																														
MATH	2011	Introduction to Multivariable Calculus	3			3											3																																
MATH	2351	Introduction to Differential Equations	3			3												3																															
PHYS		Note: PHYS1112 OR PHYS1312	3																																														
PHYS	1112	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													3																															
LIFS	1001	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			19-24	6	9	6	0	0	0	0	0	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	1910	Foundations of Mechanical and Aerospace Engineering	3	3														3																															
MECH	1990	Industrial Training	0			0*	[P]											0																															
MECH	2002	Academic and Professional Development II	0					0	0	0	0	0						0																															
MECH	2020	Statics and Dynamics	3			3												3																															
MECH	2040	Solid Mechanics I	3			3												3																															
MECH	2210	Fluid Mechanics	3			3												3																															
MECH	2300	Engineering Computation with Matrices and AI	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		Note: MECH3300 OR MECH3420 OR MECH3710	3																																														
MECH	3300	Energy Conversion	3					3										3																															
MECH	3420	Engineering Materials II	3																																														
MECH	3710	Manufacturing Processes and Systems	3																																														
MECH	3910	Heat Transfer	3					3										3																															
MECH	3910	Control Principles	3					3										3																															
MECH	3930	Electrical Technology	3						3									3																															
MECH	3930	Laboratory	3						3									3																															
MECH	3907	Mechatronic Design and Prototyping	3						3									3																															
MECH	4900	Final Year Design Project	6											3	3			6																															
ELEC	2420	Basic Electronics	3			3												3																															
BEng in Mechanical Engineering Major Requirements			54	3	0	9	15	12	9	0	0	0	3	3			54																																
BBA in General Business Management																																																	
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			3												3																															
ECON	2113	Principles of Microeconomics	3																																														
ECON	2113	Microeconomics	3																																														
ECON	3123	Note: ECON 3123 OR ECON 3123	3					3										3																															
ECON	3123	Macroeconomics	3																																														
ECON	3123	Macroeconomic Theory I	3																																														
FINA	2003	Financial Management	3	3														3																															
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, COMP 2011 and COMP 2012H instead of ISOM 2010.																															
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. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.																															
ISOM	2600	Business Statistics	3	3														3																															
ISOM	2600	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																																														
MATH	1003	Calculus and Linear Algebra	3																																														
MATH	1013	Calculus II	3			(3)												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																																														
MATH	1023	Honors Calculus I	3																																														
Required Credits for School Requirements			39-40	6	3	3	6	3	4	3	2	2	0				32																																
Major Required Courses and Electives																																																	
SBBM		SBBM Electives (Any 9 courses offered by the departments under SBBM, of which at least 4 courses are of 3000-level or above.)	29					3	4	4	6	6	6	6	6	6	29																																
Required Credits for Major Required Courses and Electives			29	0	0	0	0	3	4	4	6	6	6	6	6	6	29																																
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	To graduate, students should complete ALL requirements as specified for DOP.																														
TEMG	1015	T&M Professional Activities V	0									0	0					0																															
TEMG	3950	T&M Case Analysis and Product Innovation	3		3													3																															
TEMG	4950	T&M Corporate Consulting Project	3-6								4							4																															
Required Credits for Additional Requirements			7	0	3	0	0	0	0	4	0	0	0	0	0	0	7																																
University Common Core Requirement																																																	
CORE	C1-C10	(C) CORE - Others	21	3				3	3	6	6							21																															
CORE	C1 & C2	(C) CORE - English Language	6	3	3													6																															
CORE		Note: PHYS1112 OR PHYS1312	3																																														
HMAW	1805	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2													3																															
Sub-total for University CORE			30	7	5	0	0	3	3	6	6	0	0	0	0	0	30																																
Term load (excl. free credits)																																																	
				22	20	18	21	21	20	17	14	11	9					173																															
				173##																																													