

School:		School of Engineering and School of Business Management				<< Selection of BEng major												<< Selection of BBA major		Student's Pathway	
Program:		Dual Degree Program (BEng in Electronic Engineering and BBA in General Business Management)																		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	Semester				
BEng in Electronic Engineering																					
Engineering Fundamental Courses																					
		Note: ELEC 2600 OR MATH 2011 OR MATH 2111 OR MATH 2380 OR MATH 2381 (3 courses out of 5)				9-10															
ELEC	2600	Probability and Random Processes in Engineering				4			3	3	3						9	Students should take COMP1023 which will also be used to substitute ISOM 2010 and to waive ISOM 2020			
MATH	2011	Introduction to Multivariable Calculus				3															
MATH	2111	Matrix Algebra and Applications				3															
MATH	2380	Applied Linear Algebra and Differential Equations				3															
MATH	2381	Introduction to Differential Equations				3															
COMP	1023	Introduction to Python Programming				3		3								3					
		Note: COMP2011 OR COMP2012H				4-5															
COMP	2011	Programming with C++				4			4							4					
COMP	2012H	Honors Object-Oriented Programming and Data Structures				5															
		Note: [MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]				4-6															
MATH	1013	Calculus I				3	3	3									6	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															
MATH	1020	Accelerated Calculus				4															
MATH	1023	Honors Calculus I				3															
MATH	1024	Honors Calculus II				3															
		Note: PHYS1112 OR PHYS1312				3															
PHYS	1112	General Physics I with Calculus				3		3									3				
PHYS	1312	Honors General Physics I				3															
		Note: PHYS1114 OR PHYS1314				3															
PHYS	1114	General Physics II				3		3									3				
PHYS	1314	Honors General Physics II				3															
Required Credits for Engineering Fundamental Courses						26-30	6	9	7	3	3	0	0	0	0	0	28				
Major Required Courses and Electives																					
ELEC	1100	Introduction to Electro-Robot Design				4	4										4	Students should complete safety training and internship/industrial training to get pass of ELEC 2991			
ELEC	1200	A System View of Communications: from Signals to Packets				4		4								4					
ELEC	1910	Academic and Professional Development I				0	0	0								0					
ELEC	2100	Signals and Systems				4				4						4					
ELEC	2380	Introduction to Computer Organization and Design				4				4						4					
ELEC	2400	Electronic Circuits				4			4							4					
ELEC	2910	Academic and Professional Development II				0			0	0						0					
ELEC	2991	Industrial Experience (Electronic Engineering)				0				0	0	0				0					
ELEC	3910	Academic and Professional Development III				0					0	0				0					
		Note: [ELEC 4900 OR ELEC 4901] OR [ELEC 4910] (Students taking the Research Option must take ELEC 4901)				6															
ELEC	4900	Final Year Design Project				6				0	0	0		3*	3	6	1) "I" refers to ELEC 2991. 2) Students should complete safety training and internship/industrial training to get pass of ELEC 2991. 3) 3* = 1 credit in year 3 Summer + 2 credits in year 4 Fall.				
ELEC	4901	Final Year Thesis				6															
ELEC	4910	Co-op Program				6															
ELEC		ELEC 3000-level or above Electives (Courses of the subject and level as specified, out of which at least 2 courses must be at 4000-level. ELEC 4940 cannot be used to count towards this elective requirement)				21			0	0	4	11	6	0		21					
BEng in Electronic Engineering Major Requirements						47	4	4	4	4	4	8	11	6	0	3	3	47			
BBA in General Business Management																					
School Requirements																					
ACCT	2010	Principles of Accounting I				3	3										3	COMP 1023 is more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023 instead of ISOM 2010. ISOM 2020 is waived for DDP students who have taken and passed COMP 1023. The COMP course is similar or more advanced coding (Python) courses as ISOM 2020.			
ACCT	2020	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					3						3				
ECON	3123	Macroeconomics				3															
ECON	3123	Macroeconomic Theory I				3															
FINA	2303	Financial Management				3				3							3				
ISOM	2010	Introduction to Information Systems				3	-	-	-	-	-	-	-	-	-	-	0				
ISOM	2020	Coding for Business				1	-	-	-	-	-	-	-	-	-	-	0				
ISOM	2500	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				
		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023				3-4															
MATH	1003	Calculus and Linear Algebra				3		(3)									0	DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees			
MATH	1013	Calculus I				3															
MATH	1020	Accelerated Calculus				4															
MATH	1023	Honors Calculus I				3															
Required Credits for School Requirements						39-40	3	3	3	9	3	3	3	3	0	2	32				
Major Required Courses and Electives																					
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)				29					3	4	4	9	6	3	29				
Required Credits for Major Required Courses and Electives						29	0	0	0	0	0	3	4	4	9	6	3	29			
Additional Requirement for Dual Degree																					
Requirements for Dual Degree Program																					
TEMG	1011	T&M Professional Activities I				0	0	0									0	To graduate, students should complete ALL requirements as specified for DDP.			
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				
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				3-5							4	5			4				
Required Credits for Additional Requirements						7	0	3	0	0	0	0	0	4	5	0	7				
University Common Core Requirement																					
CORE	C3 - C10	U CORE - Others				21	3		3					6	6	3	21				
CORE	C1 & C2	U CORE - English Language				6	3	3									6				
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness				3	1	2									3				
Sub-total for University CORE						30	7	5	3	0	0	0	0	0	6	6	3	30			
							20	24	17	16	17	18	17	18	15	11		173			
							173##														