

			<< Declaration of BEng major		<< Declaration of BBA major														
School:		Academy of Interdisciplinary Studies and School of Business Management		Student's Pathway															
Program:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in Economics)																	
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	Sub-total	Remarks				
BSc in Integrative Systems and Design																			
ISDN	1001	Introduction to Integrative Systems and Design	3	3	1									3					
ISDN	1004	Sketching	1		1									1					
ISDN	1007	From Design Thinking to Design Action: Defining Problems for 3 Better Solutions	3		3									3					
ISDN	1010	Academic and Professional Development I	0	0	0									0					
ISDN	1011	Industrial Training	0											0	Take in Winter or Summer				
ISDN	2001	Second Year Design Project I	1			1								1					
ISDN	2002	Second Year Design Project II	3				3							3					
ISDN	2210	Academic and Professional Development II	0			0	0							0					
ISDN	2200	Systems Thinking and Design	3					3						3					
ISDN	2300	Introduction to 3D Design	3			3								3					
ISDN	2400	Physical Prototyping	3				3							3					
ISDN	2601	Exploring the World Through Smart Mechatronics	3			3								3					
ISDN	2602	Internet of Things: Integrative System Design	3			3								3					
ISDN	2603	Materials, Shape and Design	3				3							3					
ISDN	3001	Third Year Design Project I	3					3						3					
ISDN	3002	Third Year Design Project II	3					3	3					3					
ISDN	3010	Academic and Professional Development III	0					0	0					0					
ISDN	3200	Graphic Communication	2					2						2					
ISDN	4001	Final Year Design Project I	4									4		4					
ISDN	4002	Final Year Design Project II	4										4	4					
ISDN	4010	Academic and Professional Development IV	0							0	0			0					
		Note: COMP1022P OR COMP1023 OR COMP2011 OR COMP2012H	3-5																
COMP	1022P	Introduction to Computing with Java	3		3									3	Students should take COMP1022P, COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020				
COMP	1023	Introduction to Python Programming	3																
COMP	2011	Programming with C++	4																
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																
LANG	4036	Technical Communication II for ISDA and ISDN	3							3				3					
		Note: (MATH 1006 OR MATH 1013 OR MATH 1023 AND (MATH 1014 OR MATH 1024)) OR (MATH 1020) (Subject to approval of the program office, MATH 1014/1024 may be replaced by a COMP course)	6-7																
MATH	1006	Calculus, Vectors, and Matrices	4	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	1013	Calculus I	3																
MATH	1014	Calculus II	3																
MATH	1020	Accelerated Calculus	4																
MATH	1023	Honors Calculus I	3																
MATH	1024	Honors Calculus II	3																
		Note: PHYS1101 OR PHYS1111 OR PHYS1112 OR PHYS1312	3-4																
PHYS	1101	Introductory Physics	4	3										3					
PHYS	1111	General Physics I	3																
PHYS	1112	General Physics I with Calculus	3																
PHYS	1312	Honors General Physics I	3																
ISDN/INT/SEM/TEMG		Product Management and Entrepreneurship Electives (Courses 6 from the specified elective list, of which at least 1 course must be at 3000-level or above.)	6							3	3			6	DDP students could use ISOM 2700/MARK 2120 to satisfy part of the requirement of Product Management and Entrepreneurship Electives				
ISDN/ISNG/ MATH		Project-related Electives (Courses from the specified elective list, of which at least 12 credits should be at 3000-level or above and no more than 3 credits at 1000-level. Students should seek approval of their advisor for the choices of courses.)	21				3	9	6	3				21					
Required credits for Major Requirements Courses and Electives			85-91	9	10	10	12	14	12	9	3	4	4	87					
BBA in Economics																			
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										ECON 2103 / 2113 / 2123 is a major pre-requisite				
ECON	2113	Principles of Microeconomics	3											3					
ECON	2123	Note: ECON 2123 OR ECON 3123	3							3				3					
ECON	3123	Macroeconomics	3																
FINA	2303	Financial Management	3				3							3					
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 1022P, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.				
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passedCOMP 1023, COMP 1022P, COMP 2011 and COMP 2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.				
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 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees				
MATH	1013	Calculus I	3																
MATH	1020	Accelerated Calculus	3																
MATH	1023	Honors Calculus I	3																
Required Credits for School Requirements			38-40	6	3	3	6	0	3	5	2	3	1	32					
Major Required Courses and Electives																			
ECON	3014	Managerial Microeconomics	4					4						4					
ECON	3024	Managerial Macroeconomics	4						4					4					
ECON	3334	Introduction to Econometrics	4							4				4					
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11					
Required Credits for Major Required Courses and Electives			23	0	0	0	0	4	4	4	4	4	3	23					
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			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			3					3	6	9	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	4	5	3	0	0	0	0	3	6	9	30					
Term load (excl. free credits)																			
15 21 16 18 15 15 18 16 17 17 179																			
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