

			← Declaration of BEng major				← Declaration of BBA major				Student's Pathway												
School:		Academy of Interdisciplinary Studies and School of Business Management																					
Program:		Dual Degree Program (BSc in Integrative Systems and Design and BBA in Global Business)																					
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										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	2010	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 Mechanisms	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									
ISDN	3010	Academic and Professional Development III	0					0	0					0									
ISDN	3500	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 BBA 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	DOP 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/ENR/ SBMT/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	DOP students could use ISOM 2700/MARK 2120 to satisfy part of the requirement of Product Management and Entrepreneurship Electives								
ISDN/ENR/ 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 choice of courses.)	21				3	9	6	3				21									
Required Credits for Major Requirements Courses and Electives				85.41	9	10	10	12	14	12	9	3	4	4	87								
BBA in Global Business																							
School Requirements																							
ACCT	2201	Principles of Accounting I	3	3										3									
ACCT	2202	Principles of Accounting II	3						3					3									
		Note: ECON 2103 OR ECON 2113	3																				
ECON	2103	Principles of Microeconomics	3		3									3									
ECON	2113	Microeconomics	3																				
		Note: ECON 2123 OR ECON 3123	3																				
ECON	2123	Macroeconomics	3					3						3									
ECON	3123	Macroeconomic Theory I	3																				
FINA	2303	Financial Management	3			3								3									
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP1022P, COMP 1023, COMP 2011 or COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1022P, COMP 1023, COMP 2011 or 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 or COMP1022P, COMP 1023, COMP 2011 or COMP 2012H. These 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	2100	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	DOP 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				35.40	6	3	3	6	3	3	2	2	3	1	32								
Major Required Courses and Electives																							
GBUS	1000	Global Leadership Development	0					0	0	0	0	0	0	0									
GBUS	2010	Global Business Analysis	3						3					3									
GBUS/SBMT		Note: GBUS 2040 OR SBMT 2100-2110	1.4																				
GBUS	2040	Environmental, Social, and Governance (ESG) Corporate Project	1						1	[1]				1									
SBMT	2100-2110	Community Services Project	4																				
GBUS/ISOM		Note: GBUS 3030 OR ISOM 4780	3.4																				
GBUS	3030	Global Business Case Studies	4							3		[3]		3									
ISOM	4780	Integrated Planning and Execution	3																				
GBUS	4910	Capstone Project	4									4	[4]	4									
GBUS		Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in SBM may not be counted towards this elective requirement.)	15								6	3	6	15									
Required Credits for Major Required Courses and Electives				26.30	0	0	0	0	0	4	3	6	7	6	26								
Additional Requirement for Dual Degree																							
Requirements for Dual Degree Program																							
TEMG	1011	T&M Professional Activities I	0	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	3.5							4				4									
Required Credits for Additional Requirements				7	0	3	0	0	0	0	4	0	0	0	7								
University Common Core Requirement																							
CORE	C3 - C9	U CORE - Others	21			6					6	3	6	21									
CORE	C1 & C2	U CORE - English Language	6	3	3									6									
HBAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2									3									
Sub-total for University CORE				30	4	5	6	0	0	0	0	6	3	6	30								
Term load (incl. free credits)																							
19 21 15 16 17 19 18 17 17 17 182																							