

School:		School of Engineering and School of Business Management		<< Declaration of BEng major														<< Declaration of BBA major														Student's Pathway									
Program:		Dual Degree Program (BEng in Civil Engineering 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	Year 6 Fall	Year 6 Spring	Sub-total	Remarks																								
BEng in Civil Engineering																																									
Engineering Fundamental Courses																																									
CIVL	1121	Note: CIVL 1121 OR COMP 1022P OR COMP 1023 OR COMP2011 OR COMP 2012H	3-5																																						
COMP	1022P	Introduction to Computation for Civil Engineers	3													3	Students should take COMP 1022P, 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 Computing with Java	3		3																																				
COMP	2011	Introduction to Python Programming	4																																						
COMP	2012H	Programming with C++	5																																						
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3												3																									
MATH	1013	Note: [MATH 1013 OR MATH1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]	4-6																																						
MATH	1014	Calculus IB	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	1020	Accelerated Calculus	3																																						
MATH	1023	Honors Calculus I	3																																						
MATH	1024	Honors Calculus II	3																																						
MATH	2011	Introduction to Multivariable Calculus	3			3										3																									
MATH	2350	Applied Linear Algebra and Differential Equations	3			3										3																									
PHYS	1112	Note: PHYS 1112 OR PHYS 1312	3																																						
PHYS	1312	General Physics I with Calculus	3		3											3																									
Required Credits for Engineering Fundamental Courses			19-23	9	6	6	0	0	0	0	0	0	0	0	0	21																									
Major Required Courses and Electives																																									
CIVL	1000	Academic and Professional Development for Civil and Environmental Engineering I	0	0	0	0										0	Students admitted via school-based admission are exempted from taking CIVL 1000																								
CIVL	1100	Discovering Civil and Environmental Engineering	3	3												3																									
CIVL	2000	Academic and Professional Development for Civil and Environmental Engineering II	0			0	0									0																									
CIVL	2020	Industrial and BIM Training	0				0*									0	Student should attend the training modules in Year 2 Winter and Spring terms																								
CIVL	2110	Statics	3			3	3									3																									
CIVL	2120	Mechanics of Materials	3			3	3									3																									
CIVL	2160	Modeling Systems with Uncertainties	3			3	3									3	This course will also be used to substitute ISOM 2050																								
CIVL	2170	Infrastructure Systems Engineering and Management	3			3	3									3																									
CIVL	2410	Environmental Assessment and Management	3			3	3									3																									
CIVL	2510	Fluid Mechanics	3			3	3									3																									
CIVL	2810	Construction Materials	3			3	3									3																									
CIVL	3000	Academic and Professional Development for Civil and Environmental Engineering III	0				0	0								0																									
CIVL	3020	Internship Training	0				0*									0																									
CIVL	3210	Introduction to Construction Management	3			3	3									3																									
CIVL	3310	Structural Analysis	3			3	3									3																									
CIVL	3320	Reinforced Concrete Design	3			3	3									3																									
CIVL	3510	Hydraulics Engineering	3			3	3									3																									
CIVL	3610	Traffic and Transportation Engineering	3			3	3									3																									
CIVL	3730	Fundamentals of Geotechnics	3			3	3									3																									
CIVL	3740	Geotechnical Analysis and Design	3			3	3									3																									
CIVL	4000	Academic and Professional Development for Civil and Environmental Engineering IV	0					0	0							0																									
CIVL	4910	Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)	6											2	4	6																									
CIVL	4910	Civil and Environmental Engineering Final Year Project	6																																						
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6																																						
CIVL	4960	Civil Engineering Capstone Design Project	3					3								3																									
CIVL/ENGR		CIVL Electives (3 courses from the specified elective list)	9							3	3	3				9																									
BEng in Civil Engineering Major Requirements			63	0	3	6	12	12	12	6	3	5	4			63																									
BBA in Global Business																																									
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																																						
ECON	2113	Principles of Microeconomics	3		3											3																									
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3								3																									
ECON	3123	Macroeconomics	3					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 passed COMP 1023 or COMP 1022P or COMP2011 or COMP2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.																								
ISOM	2030	Business Statistics	3			-	-	-	-	-	-	-	-	-	-	0	Substituted by CIVL 2160																								
ISOM	2060	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											3																									
MGMT	2130	Business Ethics and Social Responsibility	2											2		2																									
MATH	1003	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																																						
MATH	1013	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	1020	Accelerated Calculus	4																																						
MATH	1023	Honors Calculus I	3																																						
Required Credits for School Requirements			39-40	3	3	9	6	3	3	3	2	1	2			29																									
Major Required Courses and Electives																																									
GBUS	1000	Global Leadership Development	0					0	0	0	0	0	0	0	0	0																									
GBUS	2010	Global Business Analysis	3					3								3																									
GBUS/SBMT	2040	Note: GBUS 2040 OR SBMT 2100-2110	1-4					1	[1]							1																									
GBUS	2100-2110	Environmental, Social, and Governance (ESG) Corporate Project	1																																						
SBMT		Community Services Project	4																																						
GBUS/ISOM	3030	Note: GBUS 3030 OR ISOM 4780	3-4							3	[3]					3																									
GBUS	4780	Global Business Case Studies	4																																						
ISOM		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			39-30	0	0	0	0	0	4	3	6	7	6	26		26																									
Additional Requirement for Dual Degree																																									
Requirements for Dual Degree Program																																									
TEMD	1011	TBM Professional Activities I	0	0	0											0																									
TEMD	1012	TBM Professional Activities II	0			0	0									0																									
TEMD	1013	TBM Professional Activities III	0					0	0							0																									
TEMD	1014	TBM Professional Activities IV	0							0	0					0																									
TEMD	1015	TBM Professional Activities V	0									0	0			0																									
TEMD	3050	TBM Case Analysis and Product Innovation	3		3											3																									
TEMD	4950	TBM Corporate Consulting Project	3-6									4				4																									
Required Credits for Additional Requirements			7	0	3	0	0	0	0	0	4	0	0	0	7																										
University Common Core Requirement																																									
CORE	C3 - C9	U CORE - Others	21			3		3		6	3	3	3	3		21																									
CORE	C1 & C2	U CORE - English Language	6	3	3											6																									
HBWP	1969	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2											3																									
Sub-total for University CORE			30	4	5	3	0	3	0	6	3	3	3	3		30																									
Term load (excl. free credits)																																									
16 20 16 18 18 10 18 18 18 16 15																																									
176##																																									
178																																									

Notes:
() indicates the reuse of the same course to fulfill more than one requirement.
* Courses offered in winter term
^ Courses offered in summer term
— denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP.

*Remarks on course(s):