

School:			School of Engineering and School of Business Management				Student's Pathway												Remarks	
Program:			Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in Finance)																	
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						
BEng in Civil and Environmental Engineering																				
Engineering Fundamental Courses																				
CIVL	1022P	1121: CIVL 1121 OR COMP 1022P OR COMP 1023 OR COMP2011 OR COMP 2012H Introduction to Computation for Civil Engineers	3-5											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	1122: COMP 1023 Introduction to Python Programming	3		3															
COMP	2011	1123: COMP 2011 Programming with C++	4																	
COMP	2012H	1124: COMP 2012H Honors Object-Oriented Programming and Data Structures	5																	
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		3									3						
Required credits for Engineering Fundamental Courses 19-23																				
Major Required Courses and Electives																				
CIVL	1000	Academic and Professional Development for Civil and Environmental Engineering I	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	2000	Industrial and BIM Training	0			0*								0						
CIVL	2110	Statics	3			3								3	Student should attend the training modules in Year 2 Winter and Spring terms					
CIVL	2120	Mechanics of Materials	3			3	3							3						
CIVL	2160	Modeling Systems with Uncertainties	3			3								3						
CIVL	2170	Infrastructure Systems Engineering and Management	3			3								3						
CIVL	2410	Environmental Assessment and Management	3			3								3	This course will also be used to substitute ISOM 2020					
CIVL	2510	Fluid Mechanics	3			3	3							3						
CIVL	2510	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						
Required credits for Engineering Fundamental Courses 19-23																				
Major Required Courses and Electives																				
CIVL	3210	Introduction to Construction Management	3					3						3	Students admitted via school-based admission are exempted from taking CIVL 1000					
CIVL	3810	Traffic and Transportation Engineering	3											3						
CIVL	3310	Structural Analysis	3				3							3						
CIVL	3320	Reinforced Concrete Design	3					3						3						
CIVL	3420	Water and Wastewater Engineering	3					3	3					3	Student should attend the training modules in Year 2 Winter and Spring terms					
CIVL	3510	Hydrological Engineering	3					3						3						
CIVL	3730	Fundamentals of Geotechnics	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	This course will also be used to substitute ISOM 2020					
CIVL	4000	Note: CIVL 4010 OR CIVL 4020 (Students taking the Research Option must take CIVL 4020)	0											0						
CIVL	4810	Civil and Environmental Engineering Final Year Project	6								2	4		6						
CIVL	4820	Civil and Environmental Engineering Final Year Thesis	6											6						
CIVL	4900	Civil Engineering Capstone Design Project	3						3					3						
CIVL/BENG		CIVL (Environmental) Electives (3 courses from the specified elective list. At least 2 courses (6 credits) should be selected from the "Restricted Electives", of which 1 course must be taken from CIVL 4450, CIVL 5400 or CIVL 5480.)	9						3	3	3			9						
BEng in Civil and Environmental Engineering Major Requirements 63																				
BBA in Finance																				
School Requirements																				
ACCT	2010	Principles of Accounting I	3			3								3	Students admitted via school-based admission are exempted from taking CIVL 1000					
ACCT	2200	Principles of Accounting II	3			3								3						
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3									3						
ECON	2113	Macroeconomics	3											3						
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3						3	FINA 2303 is a major pre-requisite					
ECON	3123	Macroeconomic Theory I	3											3						
FINA	2303	Financial Management	3			3								3						
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0						
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H. The COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0						
ISOM	2600	Introduction to Business Analytics	1						1					1						
ISOM	2700	Operations Management	3							3	3			3						
MARK	2120	Marketing Management	3			3								3	ISOM 2020 is waived for DDP students who have taken and passed COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H. The COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
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						
Required Credits for School Requirements 30-40																				
Major Required Courses and Electives																				
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	FINA 2303 is a major pre-requisite					
FINA	3103	Intermediate Investments	3					3						3						
FINA	3203	Derivative Securities	3						3					3						
FINA	3203	Intermediate Corporate Finance	3							3				3						
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	FINA 2303 is a major pre-requisite					
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3.6											3.6						
ACCT	3020	Financial Accounting II	3							3				3						
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3											3						
Required Credits for School Requirements 30-40																				
Major Required Courses and Electives																				
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Programming in VBA	3						3					3	ISOM 2020 is waived for DDP students who have taken and passed COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H. The COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
ISOM	3400	Business Applications Development in Python	3											3						
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9							3	3	3	3	9						
Required Credits for Major Required Courses and Electives 25-28																				
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	To graduate, students should complete ALL requirements as specified for DDP.					
TEMG	3050	T&M Case Analysis and Product Innovation	3		3									3						
TEMG	4050	T&M Corporate Consulting Project	3.6								4			4						
Required Credits for Additional Requirements 7																				
University Common Core Requirements																				
CORE	C3 - C8	U CORE - Others	21							3	6	6	6	21	To graduate, students should complete ALL requirements as specified for DDP.					
CORE	C1 & C2	U CORE - English Language	6	3	3									6						
HBAAW	1905	Behavioral Foundations of University Education: Health, Mindsets, and Wellness	3	1	2									3						
Sub-total for University CORE 30																				
Term load (incl. term credits)																				
16 20 16 16 19 16 16 16 17 15																				
175																				