

School:			School of Engineering and School of Business Management				Student's Pathway													
Program:			Dual Degree Program (BEng in Civil Engineering and BBA in Marketing)																	
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	Summer	Remarks					
BEng in Civil Engineering																				
Engineering Fundamental Courses																				
CIVL COMP 2021	1121 1022P 1023 2021	Note: CIVL 1121 OR COMP 1022P OR COMP 1023 OR COMP2011 OR COMP 2012H Introduction to Computation for Civil Engineers Introduction to Computing with Java Introduction to Python Programming Programming with C++ Honors Object-Oriented Programming and Data Structures	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.					
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		3									3						
MATH	1013 1014 1020 1023 1024	Note: [MATH 1013 OR MATH1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020] Calculus III Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II	4-6		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	2011	Introduction to Multivariable Calculus	3			3								3						
MATH	2350	Applied Linear Algebra and Differential Equations	3			3														
PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3		3									3						
Required Credits for Engineering Fundamental Courses				19-23	6	9	6	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	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						
CIVL	2120	Mechanics of Materials	3			3								3						
CIVL	2160	Modeling Systems with Uncertainties	3			3								3	This course will also be used to substitute ISOM 2500					
CIVL	2170	Infrastructure Systems Engineering and Management	3			3								3						
CIVL	2410	Environmental Assessment and Management	3			3								3						
CIVL	2510	Fluid Mechanics	3			3								3						
CIVL	2810	Construction Materials	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						
CIVL	3310	Structural Analysis	3					3						3						
CIVL	3320	Reinforced Concrete Design	3					3	3					3						
CIVL	3510	Hydrosystems Engineering	3					3						3						
CIVL	3610	Traffic and Transportation Engineering	3					3	3					3						
CIVL	3720	Fundamentals of Geotechnics	3					3						3						
CIVL	3740	Geotechnical Analysis and Design	3					3						3						
CIVL	4000	Academic and Professional Development for Civil and Environmental Engineering IV	0						0	0				0						
CIVL	4910 4920	Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920) Civil and Environmental Engineering Final Year Project Civil and Environmental Engineering Final Year Thesis	6									2	4	6						
CIVL	4950	Civil Engineering Capstone Design Project	9							3	3	3		9						
CIVL/BEENG		CIVL Electives (3 courses from the specified elective list)	9							3	3	3		9						
BEng in Civil Engineering Major Requirements				63	3	0	6	12	12	12	6	3	9	4	63					
BBA in Marketing																				
School Requirements																				
ACCT	2010	Principles of Accounting I	3			3								3						
ACCT	2200	Principles of Accounting II	3					3						3						
ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3		3									3						
ECON	3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3					3						3						
FINA	2303	Financial Management	3			3								3						
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 1023P, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023P, COMP 1023, COMP 2011 or COMP 2012H 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 1023P or COMP 2011 or COMP 2012H. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.					
ISOM	2600	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by CIVL 2160					
ISOM	2600	Introduction to Business Analytics	1									1		1						
ISOM	2700	Operations Management	3							3				3						
MARK	2120	Marketing Management	3			3								3	MARK 2120 is a major pre-requisite					
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						
MATH	1003 1013 1020 1023	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus I Accelerated Calculus Honors Calculus I	3-4		(3)									0	DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees					
Required Credits for School Requirements				39-40	9	3	3	6	3	3	3	2	1	2	29					
Major Required Courses and Electives																				
MARK	3220	Marketing Research	4					4						4						
MARK	3420	Consumer Behavior	4						4					4						
MARK	4210	Strategic Marketing	4							4				4						
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12								4	4	4	12						
Required Credits for Major Required Courses and Electives				24	0	0	0	0	4	4	4	4	4	4	24					
Additional Requirements for Dual Degree																				
Requirements for Dual Degree Program																				
TEMG	1011	TAM Professional Activities I	0	0	0	0								0						
TEMG	1012	TAM Professional Activities II	0			0	0							0						
TEMG	1013	TAM Professional Activities III	0					0	0					0						
TEMG	1014	TAM Professional Activities IV	0							0	0			0	To graduate, students should complete ALL requirements as specified for DDP.					
TEMG	1015	TAM Professional Activities V	0									0	0	0						
TEMG	3950	TAM Case Analysis and Product Innovation	3			3								3						
TEMG	4950	TAM Corporate Consulting Project	3-5			4								4						
Required Credits for Additional Requirements				7	0	3	4	0	0	0	0	0	0	0	7					
University Common Core Requirement																				
CORE	C1-C9	U CORE - Others	21							3	9	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	4	5	0	0	0	3	9	6	3	30						
Term load (excl. free credits)																				
16 20 19 18 19 19 16 18 16 13 174																				

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):

-- The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.