

School:		School of Engineering and School of Business Management		Student's Pathway												Remarks
Program:		Dual Degree Program (BEng in Civil Engineering and BBA in Management)		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		
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits													
BEng in Civil Engineering																
Major Requirements																
Engineering Fundamental Courses																
COMP	1021	Introduction to Computer Science	3												3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java	3		3											
COMP	2011	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
ENGG	1010	Academic Orientation	0	0	0										0	
CHEM	1010	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA	3	3											3	
CHEM	1020	General Chemistry IB	3													
LANG	2030	Technical Communication I	3												0	Waived for DDP students
MATH	1012	Note: ([MATH 1012 OR MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024]) OR [MATH 1020]	4													6
MATH	1013	Calculus IA	3		3											
MATH	1014	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
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 General Physics I with Calculus	3	3											3	
PHYS	1312	Honors General Physics I	3													
Required credits for Engineering Fundamental Courses			22-27	9	6	6	0	0	0	0	0	0	0	0	21	
Major Required Courses and Electives																
CIVL	1010	Academic Professional Development I	0					0	0						0	
CIVL	1100	Discovering Civil and Environmental Engineering	3					3							3	
CIVL	2010	Academic Professional Development II	0						0	0					0	
CIVL	2020	Industrial and BIM Training	0				0*								0	
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	3010	Academic Professional Development 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	
CIVL	3510	Hydrosystems Engineering	3							3					3	
CIVL	3610	Traffic and Transportation Engineering	3								3				3	
CIVL	3730	Fundamentals of Geotechnics	3								3				3	
CIVL	3740	Geotechnical Analysis and Design	3									3			3	
CIVL	4910	Note: CIVL 4910 OR CIVL 4920 (Students taking the Research 6 Option must take CIVL 4920)	6										3	3	6	
CIVL	4920	Civil and Environmental Engineering Final Year Project	6													
CIVL	4950	Civil Engineering Capstone Design Project	3											3	3	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0						0	
LANG	4033	Technical Communication II for Civil and Environmental Engineering	3										3		3	
CIVL/SENG		CIVL Electives (3 courses from the specified elective list) CIVL: Any CIVL courses at 4000-level or above except CIVL 4230 SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL	9									3	3	3	9	
Required credits for Major Requirements Courses and Electives			66												66	
BBA in Management																
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 Principles of Microeconomics	3		3										3	
ECON	2113	Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123 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	Substituted by COMP 1021/ 1022P/ 2011/ 2012H
ISOM	2020	Coding for Business	1												0	Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P
ISOM	2500	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	
MGMT	2010	Business Ethics and the Individual	2												2	
MGMT	2110	Organizational Behavior	3					3							3	MGMT 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2										2		2	
SBMT	1111	Business Student Induction	0												0	Waived for DDP students
LABU	2040	Business Case Analyses	3												0	Waived for DDP students
LABU	2060	Effective Communication in Business	3								3				3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4													0
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			43-44													32
Major Requirements																
Major Required Courses and Electives																
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4							4					4	Students in the Consulting Option must take MGMT 3120
MGMT	3120	Human Resources Management	4													
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4								4				4	Students in the Consulting Option must take MGMT 3140
MGMT	3140	Judgement and Decision Making in Organizations	4													
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4									3			3	Students in the Consulting Option must take MGMT 4210
MGMT	4220	Corporate Strategy	4													Students in the CSR Option must take MGMT 4210
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9								3	3	3		9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement
Required credits for Major Required Courses and Electives			20-21												20	
Additional Requirements																
Requirements for Dual Degree Program																
Required Courses																
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	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												7	
University CORE																
CORE	C3 - C12	U CORE - Others	30	3	3						6	6	3	9	30	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
Sub-total for University CORE			36												36	

Term load (excl. free credits)									
15	18	20	19	20	19	18	17	18	15
182##									

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.