

School:		School of Engineering and School of Business Management		<< Selection of BEng major												<< Declaration of BEng major												<< Selection of BBA major												Student's Pathway												Remarks
Program:		Dual Degree Program (BEng in Civil Engineering and BBA in General Business Management)																																																		
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 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++		4																																																
CHEM	1012	Honors Object-Oriented Programming and Data Structures		6																																																
		General Chemistry B: Atomic Structure, Molecules, and Bonding Theories		3		3									3																																					
		Note: [MATH 1013 OR MATH1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]		4-6																																																
MATH	1013	Calculus IB		3																																																
MATH	1014	Calculus II		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		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																																					
		Note: PHYS 1112 OR PHYS 1312		3																																																
PHYS	1112	General Physics I with Calculus		3		3									3																																					
PHYS	1312	Honors General Physics I		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										Students admitted via school-based admission are exempted from taking CIVL 1000																																				
CIVL	1100	Discovering Civil and Environmental Engineering		3	3																																															
CIVL	2000	Academic and Professional Development for Civil and Environmental Engineering II		0			0	0								0																																				
CIVL	2020	Industrial and BM Training		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																																				
CIVL	2170	Infrastructure Systems Engineering and Management		3				3								This course will also be used to substitute ISOM 2300																																				
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																																				
CIVL	3510	Hydrosystems Engineering		3						3						3																																				
CIVL	3610	Traffic and Transportation Engineering		3							3					3																																				
CIVL	3720	Fundamentals of Geotechnics		3						3						3																																				
CIVL	3760	Geotechnical Analysis and Design		3							3					3																																				
CIVL	4000	Academic and Professional Development for Civil and Environmental Engineering IV		0							0	0				0																																				
		Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)		6																																																
CIVL	4910	Civil and Environmental Engineering Final Year Project		6									2	4		6																																				
CIVL	4920	Civil and Environmental Engineering Final Year Thesis		6																																																
CIVL	4950	Civil Engineering Capstone Design Project		3							3	3	3	3		3																																				
CIVL(BENG)		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 General Business Management																																																				
School Requirements																																																				
ACCT	2010	Principles of Accounting I		3			3									3																																				
ACCT	2200	Principles of Accounting II		3						3						3																																				
		Note: ECON 2103 OR ECON 2113		3																																																
ECON	2103	Principles of Microeconomics		3			3									3																																				
ECON	2113	Macroeconomics		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																																				
ISOM	2020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-	-	0																																				
ISOM	2500	Business Statistics		3	-	-	-	-	-	-	-	-	-	-	-	0																																				
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					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																																																
MATH	1013	Calculus I		3		(3)																																														
MATH	1020	Accelerated Calculus		4																																																
MATH	1023	Honors Calculus I		3																																																
Required Credits for School Requirements				39-40	3	3	3	6	3	3	1	2	3	2	29																																					
Major Required Courses and Electives																																																				
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are at 300-level or above.)		29					3	4	7	3	6	6	29																																					
Required Credits for Major Required Courses and Electives				23	0	0	0	0	3	4	7	3	6	6	29																																					
Additional Requirement for Dual Degree																																																				
Requirements for Dual Degree Program																																																				
TEMG	1011	T&M Professional Activities I		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																																				
TEMG	1015	T&M Professional Activities V		0									0	0	0	0																																				
TEMG	3950	T&M Case Analysis and Product Innovation		3		3										3																																				
TEMG	4950	T&M Corporate Consulting Project		3-6								4				4																																				
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	7																																					
University Common Core Requirement																																																				
CORE	C3 - G2	U CORE - Others		21			3				3	6	3	6	21																																					
CORE	C1 & C2	U CORE - English Language		6		3	3									6																																				
HM&M	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness		3		1	2									3																																				
Sub-total for University CORE				30	4	6	3	0	0	0	3	6	3	6	30																																					
Term load (excl. free credits)																																																				
				16	20	18	18	18	19	17	18	17	18																																							
				179##												179																																				

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.