

An Example on Student's Pathway (as of July 11, 2022)

<< Declaration of  
BEng major

<< Declaration of  
BBA major

School:		School of Engineering and School of Business Management			Student's Pathway													Remarks
Program:		Dual Degree Program (BEng in Civil Engineering and BBA in Marketing)			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															
<b>BEng in Civil Engineering</b>																		
<b>Major Requirements</b>																		
<b>Engineering Fundamental Courses</b>																		
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Introduction to Computer Science	3-5															
COMP	1022P	Introduction to Computer Science	3															
COMP	2011	Introduction to Computing with Java	3		3													
COMP	2012H	Programming with C++	4															
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5															
ENGG	1010	Academic Orientation	0	0	0													
CHEM	1010	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA	3	3														
CHEM	1020	General Chemistry IB	3															
LANG	2030	Technical Communication I	3													0		
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4-7															
MATH	1013	Calculus IB	4															
MATH	1014	Calculus II	3															
MATH	1020	Accelerated Calculus	4	3	3													
MATH	1023	Honors Calculus I	3															
MATH	1024	Honors Calculus II	3															
MATH	2011	Introduction to Multivariable Calculus	3					3										
MATH	2350	Applied Linear Algebra and Differential Equations	3					3										
PHYS	1112	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus	3	3														
PHYS	1312	Honors General Physics I	3															
<b>Required credits for Engineering Fundamental Courses</b>				22-27	9	6	6	0	0	0	0	0	0	0	0	21		
<b>Major Required Courses and Electives</b>																		
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							0		
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							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) Civil and Environmental Engineering Final Year Project	6										3	3		6		
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6													6		
CIVL	4950	Civil Engineering Capstone Design Project	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		
<b>Required credits for Major Requirements Courses and Electives</b>				66												66		
<b>BBA in Marketing</b>																		
<b>School Requirements</b>																		
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													3		
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3							3						3		
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	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		
MGMT	2110	Organizational Behavior	3													3		
MGMT	2130	Business Ethics and Social Responsibility	2										2			2		
SBMT	1111	Business Student Induction	0													0		
LABU	2040	Business Case Analyses	3													0		
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															
MATH	1012	Calculus IA	3															
MATH	1013	Calculus IB	4															
MATH	1020	Accelerated Calculus	3															
MATH	1023	Honors Calculus I	4															
MATH	1023	Honors Calculus I	3															
<b>Required credits for School Requirements</b>				43-44												32		
<b>Major Requirements</b>																		
<b>Major Required Courses and Electives</b>																		
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		
<b>Required credits for Major Required Courses and Electives</b>				24												24		
<b>Additional Requirements</b>																		
<b>Requirements for Dual Degree Program</b>																		
<b>Required Courses</b>																		
TEMG	1010	T&M Professional Activities	0	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		
<b>Required credits for Additional Requirements</b>				7												7		
<b>University CORE</b>																		
CORE	C3 - C12	U CORE - Others	30	6	3						9	6		6		30		
CORE	C1 & C2	U CORE - English Language	6	3	3											6		
<b>Sub-total for University CORE</b>				36												36		
Term load (excl. free credits)																		
18 18 20 19 20 19 19 18 16 16																		
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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.