

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 Economics)			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 Computing with Java	3														
COMP	2011	Programming with C++	4		3												
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													Waived for DDP students	
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	3	3	3												
MATH	1014	Calculus II	3														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	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									
CIVL	1100	Discovering Civil and Environmental Engineering	3				3										
CIVL	2010	Academic Professional Development II	0					0	0								
CIVL	2020	Industrial and BIM Training	0				0*	0									
CIVL	2110	Statics	3				3										
CIVL	2120	Mechanics of Materials	3					3									
CIVL	2160	Modeling Systems with Uncertainties	3					3								This course will also be used to substitute ISOM 2500	
CIVL	2170	Infrastructure Systems Engineering and Management	3					3									
CIVL	2410	Environmental Assessment and Management	3					3									
CIVL	2510	Fluid Mechanics	3					3									
CIVL	2810	Construction Materials	3						3								
CIVL	3010	Academic Professional Development III	0							0	0						
CIVL	3020	Internship Training	0								0*						
CIVL	3210	Introduction to Construction Management	3							3							
CIVL	3310	Structural Analysis	3						3								
CIVL	3320	Reinforced Concrete Design	3							3							
CIVL	3510	Hydrosystems Engineering	3						3								
CIVL	3610	Traffic and Transportation Engineering	3							3							
CIVL	3730	Fundamentals of Geotechnics	3								3						
CIVL	3740	Geotechnical Analysis and Design	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			
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6														
CIVL	4950	Civil Engineering Capstone Design Project	3														
ENGG	2010	Engineering Seminar Series	0				0	0	0	0							
LANG	4033	Technical Communication II for Civil and Environmental Engineering	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			
<b>Required credits for Major Requirements Courses and Electives</b>				66												66	
<b>BBA in Economics</b>																	
<b>School Requirements</b>																	
ACCT	2010	Principles of Accounting I	3				3										
ACCT	2200	Principles of Accounting II	3						3								
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3		3												
ECON	2113	Microeconomics	3													ECON 2103 / 2113 / 2123 is a major pre-requisite	
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3						3								
ECON	3123	Macroeconomic Theory I	3														
FINA	2303	Financial Management	3					3									
ISOM	2010	Introduction to Information Systems	3													Substituted by COMP 1021/ 1022P/ 2011/ 2012H	
ISOM	2020	Coding for Business	1													Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P	
ISOM	2500	Business Statistics	3													Substituted by CIVL 2160	
ISOM	2600	Introduction to Business Analytics	1					1									
ISOM	2700	Operations Management	3							3							
MARK	2120	Marketing Management	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					
SBMT	1111	Business Student Induction	0													Waived for DDP students	
LABU	2040	Business Case Analyses	3													Waived for DDP students	
LABU	2060	Effective Communication in Business	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	4														
MATH	1013	Calculus IB	3														
MATH	1020	Accelerated Calculus	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>																	
ECON	3014	Managerial Microeconomics	4							4							
ECON	3024	Managerial Macroeconomics	4								4						
ECON	3334	Introduction to Econometrics	4									4					
ECON	4670	Economics Research and Communication	0										0				
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11										4	4	3		
<b>Required credits for Major Required Courses and Electives</b>				23												23	
<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												
TEMG	4950	T&M Corporate Consulting Project	3-5						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	15			
185##																	
					<< Declaration of BEng major	<< Declaration of BBA major											

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.