

<< 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 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																				
<b>BEng in Civil Engineering</b>																							
<b>Major Requirements</b>																							
<b>Engineering Fundamental Courses</b>																							
COMP	1021	Introduction to Computer Science	3																				
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																				
CHEM	1020	General Chemistry I	3	3																			
LANG	2030	Technical Communication I	3	---	---	---	---	---	---	---	---	---	---	---	---	0							
MATH	1012	Calculus IA	4																				
MATH	1013	Calculus IB	3																				
MATH	1014	Calculus II	3	3	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																
MATH	2350	Applied Linear Algebra and Differential Equations	3				3																
PHYS	1112	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	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			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 Management</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	Principles of Microeconomics	3		3											3							
ECON	2113	Microeconomics	3													3							
ECON	2123	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									2							
MGMT	2110	Organizational Behavior	3				3									3							
MGMT	2130	Business Ethics and Social Responsibility	2									2				2							
LABU	2040	Business Case Analyses	3	---	---	---	---	---	---	---	---	---	---	---	---	0							
LABU	2060	Effective Communication in Business	3							3						3							
MATH	1003	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>																							
MGMT	3110	Human Resources Management	4						4							4							
MGMT	3120	Managerial Leadership	4													4							
MGMT	3130	Judgement and Decision Making in Organizations	4						4							4							
MGMT	3140	Negotiation	4													4							
MGMT	4210	Corporate Strategy	3-4							3						3							
MGMT	4220	Entrepreneurship and Innovation	4													4							
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							
<b>Required credits for Major Required Courses and Electives</b>				20-21												20							
<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 - C9	U CORE - Others	21	3							6	6		6		21							
CORE	C1 & C2	U CORE - English Language	6	3	3											6							
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3											3							
<b>Sub-total for University CORE</b>				30												30							
Term load (excl. free credits)																							
15															18	20	19	20	19	15	17	15	15
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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.