

<< 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)															
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			
<b>BEng in Civil Engineering</b>																	
<b>Major Requirements</b>																	
<b>Engineering Fundamental Courses</b>																	
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4														
COMP	1022P	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010		
COMP	2011	Introduction to Computing with Java Programming with C++	4														
ENGG	1010	Academic Orientation	0	0	0									0			
CHEM	1010	Note: CHEM 1010 OR CHEM 1020	3														
CHEM	1020	General Chemistry IA General Chemistry IB	3	3										3			
LANG	2030	Technical Communication I	3						3					3			
MATH	1012	Note: [MATH 1012 OR MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1020]	4-7														
MATH	1013	Calculus IA	4														
MATH	1014	Calculus IB	3	3	3									6			
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	3														
PHYS	1312	General Physics I with Calculus Honors General Physics I	3	3										3			
<b>Required credits for Engineering Fundamental Courses</b>			22-26											24			
<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	6									3	3	6			
CIVL	4920	Civil and Environmental Engineering Final Year Project 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 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	3		3									3			
ECON	2113	Principles of Microeconomics Microeconomics	3														
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3						3			
ECON	3123	Macroeconomics Macroeconomic Theory I	3														
FINA	2303	Financial Management	3				3							3			
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/COMP2011		
ISOM	2020	Coding for Business	1				1							1			
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	MARK 2120 is a major pre-requisite		
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			
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students		
LABU	2040	Business Case Analyses	3										3	3			
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	3-4														
MATH	1012	Calculus and Linear Algebra	3														
MATH	1013	Calculus IA	4														
MATH	1020	Calculus IB	3	(3)										0	DDP students should take MATH 1012 or 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														
<b>Required credits for School Requirements</b>			43-44											36			
<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	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0			
TEMG	3950	Case-based Problem Solving	3		3									3			
<b>Required credits for Additional Requirements</b>			3											3			
<b>University CORE</b>																	
CORE	C3 - C12	U CORE - Others	30	6						9	9	3	3	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 20 19 19 19 19 19 18																	
189##																	

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.