

<< 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	Introduction to Computer Science	3-5															
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			
Note: (MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR [MATH 1020]																		
MATH	1012	Calculus IA	4															
MATH	1013	Calculus IB	3		3													
MATH	1014	Calculus II	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												
Note: PHYS 1112 OR PHYS 1312																		
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	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			
This course will also be used to substitute ISOM 2500																		
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			
Note: CIVL 4910 OR CIVL 4920 (Students taking the Research 6 Option must take CIVL 4920)																		
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 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																		
<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	Principles of Microeconomics	3		3										3			
ECON	2113	Microeconomics	3												3			
Note: ECON 2103 OR ECON 3123																		
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			
Substituted by COMP 1021/ 1022P/ 2011/ 2012H																		
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	---	0			
Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P																		
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			
LABU	2040	Business Case Analyses	3	---	---	---	---	---	---	---	---	---	---	---	0			
Waived for DDP students																		
LABU	2060	Effective Communication in Business	3							3					3			
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023																		
MATH	1003	Calculus and Linear Algebra	3-4															
MATH	1012	Calculus IA	4		(3)													
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>																		
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			
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 16 18 16 16																		
180##																		
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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.