

<< 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 General Business Management)														
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: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5													
COMP	1022P	Introduction to Computer Science	3		3											
COMP	2011	Introduction to Computing with Java	3													
COMP	2012H	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	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											
MATH	1020	Calculus II	3													
MATH	1023	Accelerated Calculus	4													
MATH	1024	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	3	3												
PHYS	1312	General Physics I with Calculus	3													
PHYS	1312	Honors General Physics I	3													
<b>Required credits for Engineering Fundamental Courses</b>			19-24	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									
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										
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)	6									3	3	6		
CIVL	4920	Civil and Environmental Engineering Final Year Project	6													
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	6													
CIVL	4950	Civil Engineering Capstone Design Project	3									3		3		
ENGG	2010	Engineering Seminar Series	0			0	0	0	0							
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>			63											63		
<b>BBA in General Business Management</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	3		3											
ECON	2113	Principles of Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3								
ECON	3123	Macroeconomics	3													
FINA	2303	Macroeconomic Theory I	3													
FINA	2303	Financial Management	3				3									
ISOM	2010	Introduction to Information Systems	3													
ISOM	2020	Coding for Business	1													
ISOM	2500	Business Statistics	3													
ISOM	2600	Introduction to Business Analytics	1							1						
ISOM	2700	Operations Management	3									3				
MARK	2120	Marketing Management	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			
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	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			39-40											29		
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29					3	4	7	3	6	6	29		
<b>Required credits for Major Required Courses and Electives</b>			29											29		
<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		
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 - C9	U CORE - Others	21	3						6	6			6	21	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2										3	
<b>Sub-total for University CORE</b>			30												30	
Term load (excl. free credits)																
				19	17	15	18	19	16	17	17	18	20			
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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.