

<< 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 and Environmental Engineering and BBA in General Business 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 and Environmental 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																				
COMP	2011	Introduction to Computing with Java	3		3										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											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																				
MATH	1014	Calculus II	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	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												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	Note: CIVL3210 OR CIVL3610	3						3						3								
CIVL	3610	Introduction to Construction Management	3																				
CIVL	3610	Traffic and Transportation Engineering	3																				
CIVL	3310	Structural Analysis	3					3							3								
CIVL	3320	Reinforced Concrete Design	3						3						3								
CIVL	3420	Water and Wastewater Engineering	3						3						3								
CIVL	3510	Hydrosystems 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 (Students taking the Research 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						0								
CIVL	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460	3									3			3								
CIVL	5450	Carbon Footprint Analysis and Reduction	3																				
CIVL	5450	Hazardous Waste Treatment and Site Remediation	3																				
CIVL	5460	Landfill Engineering and Design	3																				
CIVL/SENG		CIVL (Environmental) Electives [2 courses from the specified elective list. At least 1 course (3 credits) should be selected from the "Restricted Electives"]	6										3	3	6								
CIVL/SENG		Restricted electives: at least 1 course AND (CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL)	6																				
<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											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	3																				
ECON	2123	Note: ECON 2123 OR ECON 3123	3						3						3								
ECON	3123	Macroeconomics	3																				
FINA	2303	Macroeconomic Theory I	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								
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	(3)																			
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	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								
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)									
														16	17	20	19	19	19	16	17	15	18
														179##									

Notes:

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- ( ) 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.