

<< 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)			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													
BEng in Civil Engineering																
Major Requirements																
Engineering Fundamental Courses																
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											
COMP	2012H	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	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												
PHYS	1312	General Physics I with Calculus	3													
PHYS	1312	Honors General Physics I	3													
Required credits for Engineering Fundamental Courses				22-27	9	6	6	0	0	0	0	0	0	0	0	21
Major Required Courses and Electives																
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 (Students taking the Research 6 Option must take CIVL 4920)	6										3	3		6
CIVL	4920	Civil and Environmental Engineering Final Year Project	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
Required credits for Major Requirements Courses and Electives				66												66
BBA in Marketing																
School Requirements																
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													3
ECON	2123	Note: ECON 2123 OR ECON 3123	3							3						3
ECON	3123	Macroeconomics	3													3
FINA	2303	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
LANG	2061	Note: LANG 2061 OR 2062 OR 3060	3													3
LANG	2062	Professional Writing for the Workplace	3													3
LANG	3060	Professional Speaking for the Workplace	3													3
LANG	3060	Advanced Academic Writing	3													3
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4													0
MATH	1012	Calculus and Linear Algebra	3													0
MATH	1013	Calculus IA	4													0
MATH	1013	Calculus IB	3													0
MATH	1020	Accelerated Calculus	4													0
MATH	1023	Honors Calculus I	3													0
Required credits for School Requirements				43-44												32
Major Requirements																
Major Required Courses and Electives																
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
Required credits for Major Required Courses and Electives				24												24
Additional Requirements																
Requirements for Dual Degree Program																
Required Courses																
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
Required credits for Additional Requirements				7												7
University CORE																
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
Sub-total for University CORE				30												30
Term load (excl. free credits)																
16 17 18 18 20 19 19 18 17 18																
180##																

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):