

||<< 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 Finance)															
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				
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		3									3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020			
COMP	2011	Introduction to Computing with Java	3															
COMP	2012H	Programming with C++	4															
COMP	2021H	Honors Object-Oriented Programming and Data Structures	5															
CHEM	1020	General Chemistry I	3	3										3				
LANG	2030	Technical Communication I	3	--	--	--	--	--	--	--	--	--	--	0	Waived for DDP students			
	□	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7															
MATH	1012	Calculus IA	4															
MATH	1013	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															
Required credits for Engineering Fundamental Courses			22-27	9	6	6	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	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				
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	4950	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				
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 Finance																		
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															
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3						3				
ECON	3123	Microeconomics	3															
ECON	3123	Macroeconomic Theory I	3															
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite			
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				
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				
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															
Required credits for School Requirements			43-44											32	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			
Major Requirements																		
Major Required Courses and Electives																		
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1				
FINA	3103	Intermediate Investments	3					3						3				
FINA	3203	Derivative Securities	3						3					3				
FINA	3303	Intermediate Corporate Finance	3							3				3				
FINA	3810	Bloomberg Market Concepts Certification	0					0						0				
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6															
ACCT	3020	Financial Accounting I	3									3		3				
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3															
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3															
ISOM	3400	Business Applications Programming	3						3					3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.			
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9									3	3	3	9			
Required credits for Major Required Courses and Electives			25-28											25				
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				
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	18			
CORE	C1 & C2	U CORE - English Language	6	3	3									6				
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2									3				
Sub-total for University CORE			30											27				
Term load (excl. free credits)																		
16														17				
17														18				
18														16				
20														18				
18														17				
18														17				
178##																		

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):