

<< 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: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4		3										3		
COMP	1022P	Introduction to Computing with Java	3														
COMP	2011	Programming with C++	4														
ENGG	1010	Academic Orientation	0	0	0										0		
CHEM	1010	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA	3	3											3		
CHEM	1020	General Chemistry IB	3														
LANG	2030	Technical Communication I	3							3					3		
MATH	□	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□ General Physics I with Calculus□	3	3											3		
PHYS	1312	Honors General Physics I	3														
Required credits for Engineering Fundamental Courses			22-26												24		
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 Civil and Environmental Engineering Final Year Project	6									3	3		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		
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 Principles of Microeconomics	3	3											3		
ECON	2113	Microeconomics	3														
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3							3		
ECON	3123	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		
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		
SBMT	1111	Business Student Induction	0												0		
LABU	2040	Business Case Analyses	3												3		
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 Calculus and Linear Algebra	3-4														
MATH	1012	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												35		
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 Financial Accounting I	3-6														
ACCT	3020	Financial Accounting II	3						3						3		
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3														
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming	3												3		
ISOM	3400	Python Programming for Business Analytics	3														
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	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0		
TEMG	3950	Case-based Problem Solving	3		3										3		
Required credits for Additional Requirements			3												3		
University CORE																	
CORE	C3 - C12	U CORE - Others	30	6							9	6	3	6	30		
CORE	C1 & C2	U CORE - English Language	6	3	3										6		
Sub-total for University CORE			36												36		
				Term load (excl. free credits)													
				18	18	20	19	19	21	21	17	18	18				
				189##													

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).