

<< 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		
<b>BEng in Civil Engineering</b>																
<b>Major Requirements</b>																
<b>Engineering Fundamental Courses</b>																
COMP	1021	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	1022P	Introduction to Computing with Java	3													
COMP	2011	Programming with C++	4													
COMP	2012H	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	
MATH	1012	Calculus IA	4												6	
MATH	1013	Calculus IB	3													
MATH	1014	Calculus II	3	3	3											
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	General Physics I with Calculus	3	3										3		
PHYS	1312	Honors General Physics I	3											3		
<b>Required credits for Engineering Fundamental Courses</b>				22-27	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							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	Civil and Environmental Engineering Final Year Project	6									3	3	6		
CIVL	4920	Civil and Environmental Engineering Final Year Thesis	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	
<b>Required credits for Major Requirements Courses and Electives</b>				66											66	
<b>BBA in Finance</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	Principles of Microeconomics	3		3									3		
ECON	2113	Microeconomics	3											3		
ECON	2123	Macroeconomics	3					3						3		
ECON	3123	Macroeconomic Theory I	3											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 1028P	
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		
LANG	2061	Professional Writing for the Workplace	3									3		3	Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060)	
LANG	2062	Professional Speaking for the Workplace	3											3		
LANG	3060	Advanced Academic Writing	3											3		
MATH	1003	Calculus and Linear Algebra	3-4											0	DDP students should take MATH 1012 or MATH 1013 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees	
MATH	1012	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>				43-44											32	
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
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	Financial Accounting I	3							3				3		
ACCT	3020	Financial Accounting II	3											3		
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3											3		
ISOM	3230	Business Programming in VBA	3						3					3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.	
ISOM	3400	Business Applications Development in Python	3											3		
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9									3	3	3	9	
<b>Required credits for Major Required Courses and Electives</b>				25-28											25	
<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		
18														18		
20														18		
16														17		
21														17		
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<b>Notes:</b>																
() 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):																