

<< 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 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														
BEng in Civil Engineering																	
Major Requirements																	
Engineering Fundamental Courses																	
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4														
COMP	1022P	Introduction to Computer Science	3		3										3	This course will also be used to substitute ISOM 2010	
COMP	2011	Introduction to Computing with Java Programming with C++	4														
ENGG	1010	Academic Orientation	0	0	0										0		
CHEM	1010	Note: CHEM 1010 OR CHEM 1020	3	3											3		
CHEM	1020	General Chemistry IA	3														
CHEM	1020	General Chemistry IB	3														
LANG	2030	Technical Communication I	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	1013	Calculus IB	3	3	3										6		
MATH	1014	Calculus II	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	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			22-26												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	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	6										3	3	6		
CIVL	4920	Civil and Environmental Engineering Final Year Project	6														
CIVL	4950	Civil Engineering Capstone Design Project	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 Management																	
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	Macroeconomics	3														
FINA	2303	Macroeconomic Theory I	3														
FINA	2303	Financial Management	3				3								3		
ISOM	2010	Introduction to Information Systems	3												0	Substituted by COMP 1021/1022P/COMP2011	
ISOM	2020	Coding for Business	1												1		
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		
MGMT	2010	Business Ethics and the Individual	2												2		
MGMT	2110	Organizational Behavior	3				3								3	MGMT 2110 is a major pre-requisite	
MGMT	2130	Business Ethics and Social Responsibility	2									2			2		
SBMT	1111	Business Student Induction	0												0	Waived for DDP students	
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	3-4														
MATH	1012	Calculus and Linear Algebra	4														
MATH	1013	Calculus IA	3														
MATH	1013	Calculus IB	3														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
Required credits for School Requirements			43-44												36	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																	
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4							4					4	Students in the Consulting Option must take MGMT 3120	
MGMT	3120	Human Resources Management	4														
MGMT	3120	Managerial Leadership	4														
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4							4					4	Students in the Consulting Option must take MGMT 3140	
MGMT	3140	Judgement and Decision Making in Organizations	4														
MGMT	3140	Negotiation	4														
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4									3			3	Students in the Consulting Option must take MGMT 4210	
MGMT	4210	Corporate Strategy	3														
MGMT	4220	Entrepreneurship and Innovation	4														
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9									3	3	3	9	Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement	
Required credits for Major Required Courses and Electives			20-21												20		
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		
Required credits for Additional Requirements			3												3		
University CORE																	
CORE	C3 - C12	U CORE - Others	30	6								6	9	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	20	
															19	19	
															18	20	
															18	15	
															185##		

Notes:
 () indicates the reuse of the same course to fulfill more than one requirement.
 [] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.
 * 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.