

<< 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 and Environmental 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 and Environmental 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	
COMP	2011	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 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	1014	Calculus IB		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 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	Note: CIVL3210 OR CIVL3610		3						3						3	
CIVL	3610	Introduction to Construction Management Traffic and Transportation Engineering		3													
CIVL	3310	Structural Analysis		3					3							3	
CIVL	3320	Reinforced Concrete Design		3						3						3	
CIVL	3420	Water and Wastewater Engineering		3						3						3	
CIVL	3510	Hydrosystems 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 Civil and Environmental Engineering Final Year Thesis		6													
CIVL	4950	Civil Engineering Capstone Design Project		3									3			3	
CIVL	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460		3										3		3	
CIVL	5450	Carbon Footprint Analysis and Reduction		3													
CIVL	5460	Hazardous Waste Treatment and Site Remediation Landfill Engineering and Design		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 (Environmental) Electives (at least 1 course should be selected from the "Restricted Electives") Restricted electives: at least 1 course AND CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" from the list OR SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL		6									3	3		6	
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	Microeconomics		3													
ECON	2123	Note: ECON 2123 OR ECON 3123		3				3								3	
ECON	3123	Macroeconomics Macroeconomic Theory I		3													
FINA	2303	Financial Management		3				3								3	
ISOM	2010	Introduction to Information Systems		3												Substituted by COMP 1021/1022P/2011	
ISOM	2020	Coding for Business		1				1								1	
ISOM	2500	Business Statistics		3												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										MGMT 2110 is a major pre-requisite	
MGMT	2130	Business Ethics and Social Responsibility		2							2					2	
SBMT	1111	Business Student Induction		0												Substituted by ENGG 1010	
LABU	2040	Business Case Analyses		3											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		3													
MATH	1013	Calculus IA		4	(3)												
MATH	1020	Calculus IB		3													
MATH	1023	Accelerated Calculus Honors Calculus I		4													
MATH	1023	Honors Calculus I		3													
Required credits for School Requirements				43-44												36	
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	
MGMT	3120	Human Resources Management 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	
MGMT	3140	Judgement and Decision Making in Organizations 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	
MGMT	4220	Corporate Strategy Entrepreneurship and Innovation		3													
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	
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										3	
Required credits for Additional Requirements				3												3	
University CORE																	
CORE	C3 - C12	U CORE - Others		30	6						6	9		3		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 20 18 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.																	

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- # 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.