

<< 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 Marketing)			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: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Introduction to Computer Science	3-5													
COMP	1022P	Introduction to Computing with Java	3		3										3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	2011	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
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												0	Waived for DDP students
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4-7													
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 General Physics I with Calculus	3	3											3	
PHYS	1312	Honors General Physics I	3													
Required credits for Engineering Fundamental Courses			22-27												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	
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 Introduction to Construction Management	3						3						3	
CIVL	3610	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 (Students taking the Research Option must take 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	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460 Carbon Footprint Analysis and Reduction	3									3			3	
CIVL	5450	Hazardous Waste Treatment and Site Remediation	3													
CIVL	5460	Landfill Engineering and Design	3													
CIVL/SENG		CIVL (Environmental) Electives [2 courses from the specified elective list. At least 1 course (3 credits) 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 Marketing																
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	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	MARK 2120 is a major pre-requisite
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	Waived for DDP students
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 Calculus and Linear Algebra	3-4													
MATH	1012	Calculus IA	3													
MATH	1013	Calculus IB	4	(3)											0	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
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			43-44												32	
Major Requirements																
Major Required Courses and Electives																
MARK	3220	Marketing Research	4						4						4	
MARK	3420	Consumer Behavior	4							4					4	
MARK	4210	Strategic Marketing	4											4	4	
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12								4	4	4		12	
Required credits for Major Required Courses and Electives			24												24	
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	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 - C12	U CORE - Others	30	3	6						9	6		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 20 19 19 18 16 16																
186##																
<< Declaration of BEng major << Declaration of BBA major																

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):

>> 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.