

<< 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 Finance)			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	Introduction to Computer Science	3-5													
COMP	1022P	Introduction to Computing with Java	3		3											
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												3	
LANG	2030	Technical Communication I	3												0	Waived for DDP students
		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	
MATH	2350	Applied Linear Algebra and Differential Equations	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												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
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													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													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													3
CIVL	5460	Landfill Engineering and Design	3													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 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													3
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3					3								3
ECON	3123	Macroeconomic Theory I	3													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									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													0
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												32	To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003.
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									3				3
ACCT	3020	Financial Accounting II	3													3
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3													3
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming	3							3						3
ISOM	3400	Python Programming for Business Analytics	3													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	T&M Professional Activities	0	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		6						6	6	3	9		30
CORE	C1 & C2	U CORE - English Language	6		3											6
Sub-total for University CORE			36												36	
Term load (excl. free credits)																
15 18 23 19 20 21 18 17 18 18																
187##																
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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.