

<< 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 Economics)			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													
<b>BEng in Civil and Environmental Engineering</b>																	
<b>Major Requirements</b>																	
<b>Engineering Fundamental Courses</b>																	
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011		3-4													
COMP	1022P	Introduction to Computer Science		3		3											
COMP	2011	Introduction to Computing with Java Programming with C++		4													
ENGG	1010	Academic Orientation		0	0	0											
CHEM	1010	Note: CHEM 1010 OR CHEM 1020		3	3												
CHEM	1020	General Chemistry IA General Chemistry IB		3													
LANG	2030	Technical Communication I		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											
MATH	1020	Accelerated Calculus		4													
MATH	1023	Honors Calculus I		3													
MATH	1024	Honors Calculus I		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		3	3												
PHYS	1312	General Physics I with Calculus Honors General Physics I		3													
<b>Required credits for Engineering Fundamental Courses</b>				22-26												24	
<b>Major Required Courses and Electives</b>																	
CIVL	1010	Academic Professional Development I		0			0	0									
CIVL	1100	Discovering Civil and Environmental Engineering		3		3											
CIVL	2010	Academic Professional Development II		0				0	0								
CIVL	2020	Industrial and BIM Training		0			0*	0									
CIVL	2110	Statics		3			3										
CIVL	2120	Mechanics of Materials		3			3										
CIVL	2160	Modeling Systems with Uncertainties		3			3										
CIVL	2170	Infrastructure Systems Engineering and Management		3			3										
CIVL	2410	Environmental Assessment and Management		3			3										
CIVL	2510	Fluid Mechanics		3			3										
CIVL	2810	Construction Materials		3				3									
CIVL	3010	Academic Professional Development III		0					0	0							
CIVL	3020	Internship Training		0						0^							
CIVL	3210	Note: CIVL3210 OR CIVL3610		3					3								
CIVL	3610	Introduction to Construction Management Traffic and Transportation Engineering		3													
CIVL	3310	Structural Analysis		3				3									
CIVL	3320	Reinforced Concrete Design		3					3								
CIVL	3420	Water and Wastewater Engineering		3					3								
CIVL	3510	Hydrosystems Engineering		3				3									
CIVL	3730	Fundamentals of Geotechnics		3						3							
CIVL	3740	Geotechnical Analysis and Design		3							3						
CIVL	4910	Note: CIVL 4910 OR CIVL 4920		6								3	3				
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				
CIVL	4450	Note: CIVL4450 OR CIVL 5450 OR CIVL5460		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							
LANG	4033	Technical Communication II for Civil and Environmental Engineering		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			
<b>Required credits for Major Requirements Courses and Electives</b>				66												66	
<b>BBA in Economics</b>																	
<b>School Requirements</b>																	
ACCT	2010	Principles of Accounting I		3			3										
ACCT	2200	Principles of Accounting II		3					3								
ECON	2103	Note: ECON 2103 OR ECON 2113		3		3											
ECON	2113	Principles of Microeconomics Microeconomics		3													
ECON	2123	Note: ECON 2123 OR ECON 3123		3			3										
ECON	3123	Macroeconomics Macroeconomic Theory I		3													
FINA	2303	Financial Management		3				3									
ISOM	2010	Introduction to Information Systems		3													
ISOM	2020	Coding for Business		1				1									
ISOM	2500	Business Statistics		3													
ISOM	2600	Introduction to Business Analytics		1				1									
ISOM	2700	Operations Management		3					3								
MARK	2120	Marketing Management		3				3									
MGMT	2010	Business Ethics and the Individual		2			2										
MGMT	2110	Organizational Behavior		3		3											
MGMT	2130	Business Ethics and Social Responsibility		2									2				
SBMT	1111	Business Student Induction		0													
LABU	2040	Business Case Analyses		3										3			
LABU	2060	Effective Communication in Business		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													
MATH	1020	Calculus IB		3		(3)											
MATH	1023	Accelerated Calculus Honors Calculus I		4													
<b>Required credits for School Requirements</b>				43-44												36	
<b>Major Requirements</b>																	
<b>Major Required Courses and Electives</b>																	
ECON	3014	Managerial Microeconomics		4				4									
ECON	3024	Managerial Macroeconomics		4					4								
ECON	3334	Introduction to Econometrics		4						4							
ECON	4670	Economics Research and Communication		0									0				
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)		11								4	4	3			
<b>Required credits for Major Required Courses and Electives</b>				23												23	
<b>Additional Requirements</b>																	
<b>Requirements for Dual Degree Program</b>																	
<b>Required Courses</b>																	
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											
<b>Required credits for Additional Requirements</b>				3												3	
<b>University CORE</b>																	
CORE	C3 - C12	U CORE - Others		30	3				3			9	9	3	3	30	
CORE	C1 & C2	U CORE - English Language		6	3	3										6	
<b>Sub-total for University CORE</b>				36												36	
Term load (excl. free credits)																	
18 18 20 20 19 19 19 19 19 19 17																	
188##																	
<< 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.