

<< 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 General Business 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	
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: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5												
COMP	1022P	Introduction to Computer Science	3		3										3
COMP	2011	Introduction to Computing with Java	3												
COMP	2012H	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
CHEM	1020	General Chemistry I	3												3
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	-	0
Note: (MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1020)															
MATH	1012	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
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												
		Honors General Physics I	3												
<b>Required credits for Engineering Fundamental Courses</b>			22-27												21
<b>Major Required Courses and Electives</b>															
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	3												
CIVL	3310	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
Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)															
CIVL	4910	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
Note: CIVL4450 OR CIVL 5450 OR CIVL5460															
CIVL	4450	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 (Environmental) Electives [2 courses from the specified elective list. At least 1 course (3 credits) should be selected from the "Restricted Electives"]															
CIVL/SENG		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
<b>Required credits for Major Requirements Courses and Electives</b>			66												66
<b>BBA in General Business Management</b>															
<b>School Requirements</b>															
ACCT	2010	Principles of Accounting I	3	3											3
ACCT	2200	Principles of Accounting II	3							3					3
Note: ECON 2103 OR ECON 2113															
ECON	2103	Principles of Microeconomics	3				3								3
ECON	2113	Microeconomics	3												
Note: ECON 2123 OR ECON 3123															
ECON	2123	Macroeconomics	3						3						3
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3												3
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	0
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	---	0
Substituted by COMP 1021/1022P/2011/2012H															
ISOM	2500	Business Statistics	3	---	---	---	---	---	---	---	---	---	---	---	0
Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P															
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								2
MGMT	2110	Organizational Behavior	3				3								3
MGMT	2130	Business Ethics and Social Responsibility	2									2			2
Note: LANG 2061 OR 2062 OR 3060															
LANG	2061	Professional Writing for the Workplace	3										3		3
LANG	2062	Professional Speaking for the Workplace	3												
LANG	3060	Advanced Academic Writing	3												
Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060).															
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023															
MATH	1003	Calculus and Linear Algebra	3-4												
MATH	1012	Calculus IA	3												
MATH	1013	Calculus IB	3	(3)											0
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
<b>Required credits for School Requirements</b>			43-44												32
<b>Major Requirements</b>															
<b>Major Required Courses and Electives</b>															
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29						3	4	7	3	6	6	29
<b>Required credits for Major Required Courses and Electives</b>			29												29
<b>Additional Requirements</b>															
<b>Requirements for Dual Degree Program</b>															
<b>Required Courses</b>															
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
<b>Required credits for Additional Requirements</b>			7												7
<b>University CORE</b>															
CORE	C3 - C9	U CORE - Others	21								6	6		6	21
CORE	C1 & C2	U CORE - English Language	6	3	3										6
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2										3
<b>Sub-total for University CORE</b>			30												30
Term load (excl. free credits)															
16 17 20 19 19 16 17 21 18															
185##															

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.