

<< 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 Computer 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																				
BEng in Computer Engineering																							
Major Requirements																							
Engineering Fundamental Courses																							
COMP	1021	Note: COMP1021 OR COMP1022P Introduction to Computer Science	3	3											3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 Waived for DDP students							
COMP	1022P	Introduction to Computing with Java	3																				
LANG	2030	Technical Communication I	3												0								
MATH	1012	Note: ((MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)) OR (MATH 1020) 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							3								
MATH	2111	Matrix Algebra and Applications	3					3							3								
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3	3											3								
PHYS	1312	Honors General Physics I	3																				
PHYS	1114	Note: PHYS1114 OR PHYS1314 General Physics II	3						3						3								
PHYS	1314	Honors General Physics II	3																				
SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4	(3)											0								
Required credits for Engineering Fundamental Courses			25-29												21								
Major Required Courses and Electives																							
CPEG	2930	Academic and Professional Development I	0					0	0							0							
CPEG	3930	Academic and Professional Development II	0						0	0						0							
COMP	2011	Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++	5-8																				
COMP	2012	Object-Oriented Programming and Data Structures	4				4		4						8								
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																				
COMP	2611	Note: COMP2611 OR ELEC2350 Computer Organization	4												4								
ELEC	2350	Introduction to Computer Organization and Design	4																				
COMP	2711	Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science	4									4			4								
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4																				
ELEC	2600	Probability and Random Processes in Engineering	4																				
COMP	3511	Operating Systems	3									3			3								
COMP	4521	CPEG Restricted Elective (1 course from the specified elective list). The course cannot be double counted in Area Courses requirement. Mobile Application Development	3-4																				
COMP	4611	Design and Analysis of Computer Architectures	3										3		3								
ELEC	4310	Embedded System Design	4																				
ELEC	4320	FPGA-based Design: From Theory to Practice	3																				
ELEC	4330	Mobile Embedded Systems: Hardware Platform, Software Development, and Applications	3																				
CPEG	1971	Note: (CPEG 1971 AND (CPEG 4901 OR CPEG 4902 OR CPEG 4911 OR CPEG 4912)) OR (CPEG 4910) (Students taking the Research Option must take either CPEG 4902 or CPEG 4912) Industrial Experience	6										3	3	6								
CPEG	4901	Computer Engineering Final Year Project in COMP	6																				
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6																				
CPEG	4911	Computer Engineering Final Year Project in ELEC	6																				
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6																				
CPEG	4910	Co-op Program	6																				
ELEC	1100	Introduction to Electro-Robot Design	4				4								4								
ELEC	1200	Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets	8						4		4				8								
ELEC	2100	Signals and Systems	4																				
ELEC	2400	Electronic Circuits	4																				
ELEC	3300	Introduction to Embedded Systems	4									4			4								
ENGG	2010	Engineering Seminar Series	0				0	0	0	0					0								
LANG	4030	Note: LANG4030 OR LANG4031 Technical Communication II for CSE, CPEG & DSCT	3										3		3								
LANG	4031	Technical Communication II for ECE & CPEG	3																				
COMP/ELEC		Area Courses (At least 2 courses should be taken from one 15 single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.)	15				3					4	4	4	15								
Required credits for Major Requirements Courses and Electives			59-63												62								
BBA in Economics																							
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 2103 / 2113 / 2123 is a major pre-requisite							
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 1029P							
ISOM	2500	Business Statistics	3				3								3								
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								
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	3																				
MATH	1020	Accelerated Calculus	4																				
MATH	1023	Honors Calculus I	3																				
Required credits for School Requirements			43-44												35	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							
Major Requirements																							
Major Required Courses and Electives																							
ECON	3014	Managerial Microeconomics	4						4						4								
ECON	3024	Managerial Macroeconomics	4							4					4								
ECON	3334	Introduction to Econometrics	4								4				4								
ECON	4670	Economics Research and Communication	0										0		0								
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11									4	4	3	11								
Required credits for Major Required Courses and Electives			23												23								
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 - C9	U CORE - Others	21	3		3	3								6	21							
CORE	C1 & C2	U CORE - English Language	6	3	3										6	6							
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3										3	3							
Sub-total for University CORE			30												30								
														Term load (excl. free credits)									
														18	18	17	18	20	21	16	17	17	16
														178##									

Notes:

- () indicates the reuse of the same course to fulfill more than one requirement.
- 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.