

<< 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 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 Computer Engineering																
Major Requirements																
Engineering Fundamental Courses																
COMP	1021	Note: COMP1021 OR COMP1022P	3	3											3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computer Science	3													
ENGG	1010	Academic Orientation	0	0	0										0	
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						3	
MATH	2111	Matrix Algebra and Applications	3			3									3	
PHYS	1112	Note: PHYS1112 OR PHYS1312	3	3											3	
PHYS	1312	General Physics I with Calculus	3													
PHYS	1314	Honors General Physics I	3													
PHYS	1114	Note: PHYS1114 OR PHYS1314	3		3										3	
PHYS	1314	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	
		Note: (COMP2011 AND COMP2012) OR COMP2012H	5-8													
COMP	2011	Programming with C++	4			4									8	
COMP	2012	Object-Oriented Programming and Data Structures	4						4							
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
		Note: COMP2011 OR ELEC2350	4													
COMP	2611	Computer Organization	4			4									4	
ELEC	2350	Introduction to Computer Organization and Design	4													
		Note: COMP2711 OR COMP2711H OR ELEC 2600	4													
COMP	2711	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	
		CPEG Restricted Elective (1 course from the specified elective list). The course cannot be double counted in Area Courses requirement.	3-4													
COMP	4521	Mobile Application Development	3										3		3	
COMP	4611	Design and Analysis of Computer Architectures	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													
		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)	6													
CPEG	1971	Industrial Experience	0										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	
		Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3)	8													
ELEC	1200	A System View of Communications: from Signals to Packets	4					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	
		Note: LANG4030 OR LANG4031	3													
LANG	4030	Technical Communication II for CSE, CPEG & DSCT	3											3	3	
LANG	4031	Technical Communication II for ECE & CPEG	3													
		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 Finance																
School Requirements																
ACCT	2010	Principles of Accounting I	3	3											3	
ACCT	2200	Principles of Accounting II	3						3						3	
		Note: ECON 2103 OR ECON 2113	3		3										3	
ECON	2103	Principles of Microeconomics	3													
ECON	2113	Microeconomics	3													
		Note: ECON 2123 OR ECON 3123	3						3						3	
ECON	2123	Macroeconomics	3													
ECON	3123	Macroeconomic Theory I	3													
FINA	2303	Financial Management	3					3							3	FINA 2303 is a major pre-requisite
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	
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	
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4													
MATH	1003	Calculus and Linear Algebra	3													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3		(3)										0	To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003.
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			43-44												35	
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	
		Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6													
ACCT	3010	Financial Accounting I	3													
ACCT	3020	Financial Accounting II	3								3				3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3													
		Note: ISOM 3230 OR ISOM 3400	3													
ISOM	3230	Business Applications Programming	3								3				3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.
ISOM	3400	Python Programming for Business Analytics	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													