

<< 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 Decision Analytics 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 Decision Analytics																
Major Requirements																
Engineering Fundamental Courses																
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5													
COMP	1022P	Introduction to Computer Science	3													
COMP	2011	Introduction to Computing with Java	3		3											
COMP	2012H	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
CHEM	1012	Note: CHEM1012 OR PHYS1112 OR PHYS1312	3													
PHYS	1112	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		3											
PHYS	1312	General Physics I with Calculus	3													
PHYS	1312	Honors General Physics I	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													
MATH	1020	Accelerated Calculus	4		3											
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
MATH	2011	Introduction to Multivariable Calculus	3													
MATH	2111	Matrix Algebra and Applications	3						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)											
Required credits for Engineering Fundamental Courses			19-24												18	
Major Required Courses and Electives																
IEDA	1010	Academic and Professional Development I	0													
IEDA	1020	Academic and Professional Development II	0													
IEDA	1901	Industrial Training and Experience	0											0		
IEDA	2520	Probability for Engineers	3												3	
IEDA	2540	Statistics for Engineers	3												0	
Substituted by ISOM 2500 for students who wish to declare FINA as BBA major																
IEDA	3010	Prescriptive Analytics	3												3	
IEDA	3230	Engineering Economics and Accounting	3												3	
IEDA	3250	Stochastic Models	3												3	
IEDA	3300	Industrial Data Systems	3												3	
IEDA	3560	Predictive Analytics	3												3	
IEDA	4901	Note: IEDA4901 OR IEDA4920	6													
IEDA	4920	Final Year Thesis	6											3	3	
IEDA	4920	Decision Analytics Final Year Project	6													
ENGG	2010	Engineering Seminar Series	0												0	
ECON	2103	Note: ECON2103 OR ECON2113	3												3	
ECON	2113	Principles of Microeconomics	3												3	
ECON	2113	Microeconomics	3												3	
IEDA		Area Electives (5 courses from the specified elective list, of which all 5 courses should be taken from the same area)	15											3	6	
IEDA			3											3	3	
Required credits for Major Required Courses and Electives			45												42	
BBA in Finance																
School Requirements																
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												0	
ECON	2113	Principles of Microeconomics	3												0	
ECON	2113	Microeconomics	3												0	
ECON	2123	Note: ECON 2123 OR ECON 3123	3												3	
ECON	3123	Macroeconomics	3												3	
ECON	3123	Macroeconomic Theory I	3												3	
FINA	2303	Financial Management	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 COMP 1021 or COMP 1029P																
ISOM	2500	Business Statistics	3												3	
Substitute IEDA 2540																
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	
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	4													
MATH	1013	Calculus IA	3													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
Required credits for School Requirements			39-40												29	
Major Requirements																
Major Required Courses and Electives																
FINA	3001	Key Skills for Finance Professionals (A)	1												1	
FINA	3103	Intermediate Investments	3												3	
FINA	3203	Derivative Securities	3												3	
FINA	3303	Intermediate Corporate Finance	3												3	
FINA	3810	Bloomberg Market Concepts Certification	0												0	
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6													
ACCT	3020	Financial Accounting I	3												3	
ACCT	3030	Financial Accounting II	3												3	
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												3	
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3													
ISOM	3400	Business Programming in VBA	3												3	
ISOM	3400	Business Applications Development in Python	3												3	
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9											3	3	
FINA			3											3	3	
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	
TEMG	3950	T&M Case Analysis and Product Innovation	3												3	
TEMG	4950	T&M Corporate Consulting Project	3-5												4	
Required credits for Additional Requirements			7												7	
University CORE																
CORE	C3 - C9	U CORE - Others	21												21	
CORE	C1 & C2	U CORE - English Language	6												6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3												3	
Sub-total for University CORE			30												30	
Term load (excl. free credits)																
				16	17	15	15	16	15	17	15	12	13			
151##																

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 specified for DDP.

**Remarks on course(s):