

<< Declaration of BEng major << Declaration of BBA major

School:		School of Engineering and School of Business Management			Student's Pathway										
Program:		Dual Degree Program (BEng in Decision Analytics and BBA in General Business Management)													
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	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	Remarks

**BEng in Decision Analytics**

**Major Requirements**

<b>Engineering Fundamental Courses</b>															
COMP	1021	Introduction to Computer Science	3-5												
COMP	1022P	Introduction to Computing with Java	3		3									3	Students should take COMP1021 which will also be used to substitute ISOM2010 and to waive ISOM2020
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3											
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	3												
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							3	
MATH	2111	Matrix Algebra and Applications	3			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)									0	
<b>Required credits for Engineering Fundamental Courses</b>			19-24											18	

**Major Required Courses and Electives**

IEDA	1010	Academic and Professional Development I	0			0	0							0	
IEDA	1020	Academic and Professional Development II	0					0	0					0	
IEDA	1901	Industrial Training and Experience	0										0	0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	This course will also be used to substitute ISOM2500
IEDA	3010	Prescriptive Analytics	3					3						3	
IEDA	3230	Engineering Economics and Accounting	3				3							3	
IEDA	3250	Stochastic Models	3					3						3	
IEDA	3300	Industrial Data Systems	3			3								3	
IEDA	3560	Predictive Analytics	3						3					3	
IEDA	4901	Final Year Thesis	6									3	3	6	
IEDA	4920	Decision Analytics Final Year Project	6											6	
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
ECON	2103	Principles of Microeconomics	3			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	3	3		15	
<b>Required credits for Major Required Courses and Electives</b>			45											45	

**BBA in General Business Management**

**School Requirements**

ACCT	2010	Principles of Accounting I	3	3										3	
ACCT	2200	Principles of Accounting II	3		3									3	
ECON	2103	Principles of Microeconomics	3			(3)								0	
ECON	2113	Microeconomics	3											0	
ECON	2123	Macroeconomics	3						3					3	
ECON	3123	Macroeconomic Theory I	3											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 COMP 1021 or COMP 1029P
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by IEDA 2540
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	
MATH	1003	Calculus and Linear Algebra	3-4											0	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
MATH	1012	Calculus IA	4											0	
MATH	1013	Calculus IB	3											0	
MATH	1020	Accelerated Calculus	4											0	
MATH	1023	Honors Calculus I	3											0	
<b>Required credits for School Requirements</b>			39-40											26	

**Major Requirements**

**Major Required Courses and Electives**

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	

**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	
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	

**University CORE**

CORE	C3 - C9	U CORE - Others	21	3				3		3	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	15	15	18	13	18	15	12	16
155##									

Notes: << Declaration of BEng major << Declaration of BBA major

( ) 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):

>> 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.