

<< 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	Year 6 Fall	Year 6 Spring	Sub-total	Remarks			
BEng in Decision Analytics																					
Engineering Fundamental Courses																					
COMP	1023	New: COMP1023 OR COMP2011 OR COMP2012H		3-6																	
COMP	2011	Introduction to Python Programming		3	3												3	Students should take COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020			
COMP	2012H	Programming with C++		4																	
		Hours: Object-Oriented Programming and Data Structures		5																	
CHEM	1012	New: CHEM1012 OR PHYS1112 OR PHYS1312		3																	
PHYS	1112	General Chemistry II: Atomic Structure, Molecules, and Bonding Theories		3	3												3				
PHYS	1312	General Physics I with Calculus		3																	
		Hours: General Physics I		3																	
MATH	1013	New: (MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1025)		4-6																	
MATH	1014	Calculus I		3																	
MATH	1020	Calculus II		3	3	3											6	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
MATH	1023	Accelerated Calculus		4																	
MATH	1024	Hours: Calculus I		3																	
MATH	1025	Hours: Calculus II		3																	
MATH	2011	Introduction to Multivariable Calculus		3				3									3				
MATH	2111	Matrix Algebra and Applications		3													3				
Required Credits for Engineering Fundamental Courses				16-20	9	3	3	3	3	0	0	0	0	0	0	0	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				
IEDA	2010	Introduction to Industrial Engineering and Decision Analytics		3	3												3				
IEDA	2520	Probability for Engineers		3			3										3				
IEDA	2540	Statistics for Engineers		3				3									3	This course will also be used to substitute ISOM2000			
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							3				
IEDA	3360	Predictive Analytics		3													3				
IEDA		New: IEDA4001 OR IEDA4020		6																	
IEDA	4001	Final Year Thesis		6										3	3		6				
IEDA	4020	Decision Analytics Final Year Project		6																	
		New: ECON2103 OR ECON2113		3																	
ECON	2103	Principles of Microeconomics		3		3											3				
ECON	2113	Principles of Macroeconomics		3																	
IE&A&ISOM		Academic 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				
BEng in Decision Analytics Major Requirements				48	3	3	9	3	3	6	6	0	3	6	3	46					
BBA in General Business Management																					
School Requirements																					
ACCT	1010	Principles of Accounting I		3	3												3				
ACCT	2000	Principles of Accounting II		3		3											3				
		New: ECON 2103 OR ECON 2113		3																	
ECON	2103	Principles of Microeconomics		3			(3)										0				
ECON	2113	Principles of Macroeconomics		3																	
		New: ECON 2120 OR ECON 3123		3																	
ECON	2120	Principles of Macroeconomics		3						3							3				
ECON	3123	Hours: Macroeconomics		3																	
FINA	2303	Financial Management		3				3									3				
ISOM	2010	Introduction to Information Systems		3	-	-	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 2011 or COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1023, COMP 2011 or COMP 2012H instead of ISOM 2010.			
ISOM	2020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 or COMP 2012H. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.			
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				
MGMT	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				
		New: MATH 1023 OR MATH 1013 OR MATH 1020 OR MATH 1023		3-4																	
MATH	1003	Calculus and Linear Algebra		3			(3)										0	DDP students should take MATH 1013 and MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees			
MATH	1013	Calculus I		3																	
MATH	1020	Accelerated Calculus		4																	
MATH	1023	Hours: Calculus I		5																	
Required Credits for School Requirements				30-40	3	3	3	6	2	3	2	3	0	1	26						
Major Required Courses and Electives																					
BBAM		Electives (any 4 courses offered by the departments under BBAM, of which at least 4 courses are of 3000-level or above.)		20					3	4	7	3	6	6	20						
Required Credits for Major Required Courses and Electives				23	0	0	0	0	3	4	7	3	6	6	29						
Additional Requirement for Dual Degree																					
Requirements for Dual Degree Program																					
TEMS	1011	TEMS Professional Activities I		0	0	0											0				
TEMS	1012	TEMS Professional Activities II		0			0	0									0				
TEMS	1013	TEMS Professional Activities III		0					0	0							0				
TEMS	1014	TEMS Professional Activities IV		0						0	0						0				
TEMS	1015	TEMS Professional Activities V		0							0	0					0				
TEMS	3000	TEMS Case Analysis and Problem Innovation		3		3											3				
TEMS	4000	TEMS Corporate Consulting Project		3-5								4					4				
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	0	7					
University Common Core Requirement																					
CORE	C3 - C9	U-CORE - Others		21				3	3	3		3	3	6			21				
CORE	C1 & C2	U-CORE - English Language		6	3	3											6				
IB&W	1909	Behavioral Foundations of University Education: Habits, Motives, and Wellness		3	1	2											3				
Sub-total for University CORE				30	4	5	0	3	3	3	0	3	3	6			30				
Term load (per 100 credits)																					
					19	17	16	15	14	16	15	16	16	16	168						

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.