

School:		School of Engineering and School of Business Management			Student's Pathway										
Program:		Dual Degree Program (BEng in Decision Analytics and BBA in Economics)													
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**

**Engineering Fundamental Courses**

COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Introduction to Computer Science	3-5												Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computing with Java	3		3									3	
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry IA	3												Waived for DDP students
CHEM	1020	General Chemistry IB	3	3										3	
PHYS	1112	General Physics I with Calculus	3												
PHYS	1312	Honors General Physics I	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	4-7												
MATH	1013	Calculus IB	4												
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	
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>			22-27											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	0	0	0	0	0	0	0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	
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	Note: IEDA4901 OR IEDA4920 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	Note: ECON2103 OR ECON2113 Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3											3	
LANG	4032	Technical Communication II for IEDA and ISDN	3						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>			48											48	

**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)								0	ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON	2113	Microeconomics	3											0	
ECON	2123	Note: ECON 2123 OR ECON 3123 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	
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					3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra	3-4												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												
MATH	1013	Calculus IB	3	(3)										0	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
<b>Required credits for School Requirements</b>			43-44											29	

**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	
<b>Required credits for Major Required Courses and Electives</b>			23											23	

**Additional Requirements**

**Requirements for Dual Degree Program**

<b>Required Courses</b>															
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	
<b>Required credits for Additional Requirements</b>			7											7	

**University CORE**

CORE	C3 - C12	U CORE - Others	30	3		3		3		3	6	3	9	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
<b>Sub-total for University CORE</b>			36											36	

Term load (excl. free credits)

15	15	18	18	16	16	15	16	17	15
161##									

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):