

<< 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 Management)				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	Subtotal	
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		3										
COMP	2011	Introduction to Computing with Java	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	Calculus II	3	3	3										
MATH	1023	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3				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			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
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	6									3	3		6
IEDA	4920	Final Year Thesis	6												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	3			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	3	3			15
Required credits for Major Required Courses and Electives			45												45
BBA in Management															
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	3			(3)									0
ECON	2113	Principles of Microeconomics	3												0
ECON	2123	Note: ECON 2123 OR ECON 3123	3						3						3
ECON	3123	Macroeconomics	3												3
ECON	3123	Macroeconomic Theory I	3												3
FINA	2303	Financial Management	3				3								3
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	0
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	0
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	-	0
ISOM	2600	Introduction to Business Analytics	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	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												
MATH	1012	Calculus and Linear Algebra	3												
MATH	1013	Calculus IA	4												
MATH	1013	Calculus IB	3			(3)									0
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
Required credits for School Requirements			39-40												26
Major Requirements															
Major Required Courses and Electives															
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4					4							4
MGMT	3120	Human Resources Management	4												4
MGMT	3120	Managerial Leadership	4												4
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4						4						4
MGMT	3140	Judgement and Decision Making in Organizations	4												4
MGMT	3140	Negotiation	4												4
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4							3					3
MGMT	4220	Corporate Strategy	3												3
MGMT	4220	Entrepreneurship and Innovation	4												4
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9							3	3	3			9
Required credits for Major Required Courses and Electives			20-21												20
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	0
TEMG	3950	T&M Case Analysis and Product Innovation	3		3										3
TEMG	4950	T&M Corporate Consulting Project	3-5					4							4
Required credits for Additional Requirements			7												7
University CORE															
CORE	C3 - C9	U CORE - Others	21			3				3	6	3	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
Sub-total for University CORE			30												30
Term load (excl. free credits)															
				16	17	15	15	16	13	14	15	12	13		
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() 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):