

<< 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 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						

BEng in Decision Analytics

Major Requirements

Engineering Fundamental Courses

COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5												3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1022P	Introduction to Computer Science	3													
COMP	2011	Introduction to Computing with Java	3		3											
COMP	2012H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4 5													
CHEM	1012	Note: CHEM1012 OR PHYS1112 OR PHYS1312	3												3	
PHYS	1112	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3												
PHYS	1312	General Physics I with Calculus Honors General Physics I	3 3													
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
MATH	□	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7												6	
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3	3	3											
MATH	1014	Calculus II	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3												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	
Required credits for Engineering Fundamental Courses			22-27	6	6	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	0	0	0	0	0	0	0	0	
IEDA	2520	Probability for Engineers	3			3								3	
IEDA	2540	Statistics for Engineers	3				3							3	Students are required to complete IEDA 1901 Industrial Training and Experience Course. Course and training modules are available in Winter and Summer term
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												
ENG	2010	Decision Analytics Final Year Project	0			0	0	0	0					0	
ECON	2103	Engineering Seminar Series	0												
ECON	2113	Note: ECON2103 OR ECON2113	3			3								3	
ECON	2113	Principles of Microeconomics	3												
LANG	4032	Microeconomics	3						3					3	
LANG	4032	Technical Communication II for IEDA and ISDN	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			48	0	0	9	6	6	9	6	3	6	3	48	

BBA in Economics

School Requirements

ACCT	2010	Principles of Accounting I	3	3										3	ECON 2103 / 2113 / 2123 is a major pre-requisite
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												
ECON	2123	Note: ECON 2123 OR ECON 3123	3				3							3	
ECON	3123	Macroeconomics	3												
FINA	2303	Macroeconomic Theory I	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	
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students if they have taken and passed COMP 1021 or COMP 1029P
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	Waived for DDP students
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	0	
ECON	3700	Writing as an Economist	3								3			3	
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	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 and Linear Algebra	3												
MATH	1013	Calculus IA	4												
MATH	1013	Calculus IB	4	(3)											
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
Required credits for School Requirements			43-44	3	3	3	9	3	0	2	6	0	0	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		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11								4	4	3	11	
Required credits for Major Required Courses and Electives			23	0	0	0	0	4	4	4	4	4	3	23	

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	
Required credits for Additional Requirements			7	0	3	0	0	0	0	0	0	4	0	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	
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3									3	
Sub-total for University CORE			30	6	6	0	0	3	0	6	3	0	6	30	

Term load (excl. free credits)

15	18	15	18	16	13	18	16	14	12
155##									

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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):

>> 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.