

<< 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 Finance)														
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													
COMP	1022P	Introduction to Computing with Java	3		3											
COMP	2011	Programming with C++	4													
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5													
CHEM	1020	Note: CHEM1020 OR PHYS1112 OR PHYS1312 General Chemistry I	3													
PHYS	1112	General Physics I with Calculus	3	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]	4-7													
MATH	1013	Calculus IA	4													
MATH	1014	Calculus IB	3													
MATH	1020	Accelerated Calculus	3	3	3											6
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	0	0
IEDA	2520	Probability for Engineers	3			3										3
IEDA	2540	Statistics for Engineers	3	---	---	---	---	---	---	---	---	---	---	---	---	0
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				6
IEDA	4920	Decision Analytics Final Year Project	6										3			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													45

**BBA in Finance**

**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	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
ISOM	2020	Coding for Business	1	---	---	---	---	---	---	---	---	---	---	---	---	0
ISOM	2500	Business Statistics	3	3												3
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
LABU	2040	Business Case Analyses	3	---	---	---	---	---	---	---	---	---	---	---	---	0
LABU	2060	Effective Communication in Business	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													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			43-44													32

**Major Requirements**

Major Required Courses and Electives

FINA	3001	Key Skills for Finance Professionals (A)	1					1								1
FINA	3103	Intermediate Investments	3					3								3
FINA	3203	Derivative Securities	3						3							3
FINA	3303	Intermediate Corporate Finance	3							3						3
FINA	3810	Bloomberg Market Concepts Certification	0					0								0
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I	3													
ACCT	3020	Financial Accounting II	3							3						3
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3													
ISOM	3230	Note: ISOM 3230 OR ISOM 3400 Business Applications Programming	3													
ISOM	3400	Python Programming for Business Analytics	3													
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9									3	3	3		9
<b>Required credits for Major Required Courses and Electives</b>			25-28													25

**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	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
CORE	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	14	18	17	15	15	15
157##									

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):