

<< 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 Industrial Engineering and Engineering Management and BBA in Marketing)			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
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits													
<b>BEng in Industrial Engineering and Engineering Management</b>																
<b>Major Requirements</b>																
Engineering Fundamental Courses																
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H	3-5													
COMP	1022P	Introduction to Computer Science	3	3												3
COMP	2011	Introduction to Computing with Java	4													
COMP	2012H	Programming with C++	5													
CHEM	1012	Note: CHEM1012 OR PHYS1112 OR PHYS1312	3	3												
PHYS	1112	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3													
PHYS	1312	General Physics I with Calculus	3													
MATH	□	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1014	Calculus II	3	3	3											
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>			19-25													18
<b>Major Required Courses and Electives</b>																
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	4100	Integrated Production Systems	3								3					3
IEDA	4130	System Simulation	3								3					3
IEDA	4901	Note: IEDA 4901 OR IEDA 4960 (Students taking the Research Option must take IEDA 4901)	6									3				6
IEDA	4960	Final Year Thesis	6										3			6
ENG	2010	Industrial Engineering and Engineering Management Final Year Project	6													
ENGG	2010	Engineering Seminar Series	0			0	0	0	0							0
ECON	2103	Note: ECON 2103 OR ECON 2113	3			3										3
ECON	2113	Principles of Microeconomics	3													
ECON	2113	Microeconomics	3													
IEDA		Industrial Engineering Electives (Courses from the specified elective list, of which at least 15 credits should be taken from 1 of the 2 areas and at least 6 credits outside that area.)	21			6	3			3		3		6		21
<b>Required credits for Major Requirements Courses and Electives</b>			54													54
<b>BBA in Marketing</b>																
<b>School Requirements</b>																
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													
ECON	2113	Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3								3
ECON	3123	Macroeconomics	3													
ECON	3123	Macroeconomic Theory I	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		1
ISOM	2700	Operations Management	3													0
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													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			39-40													23
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
MARK	3220	Marketing Research	4					4								4
MARK	3420	Consumer Behavior	4						4							4
MARK	4210	Strategic Marketing	4							4						4
MARK		MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified)	12								4	4	4			12
<b>Required credits for Major Required Courses and Electives</b>			24													24
<b>Additional Requirements</b>																
<b>Requirements for Dual Degree Program</b>																
<b>Required Courses</b>																
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
<b>University CORE</b>																
CORE	C3 - C9	U CORE - Others	21		6				6	3	3	3				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
<b>Sub-total for University CORE</b>			30													30
Term load (excl. free credits)																
16 17 15 18 17 15 15 16 13 14																
156##																

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):