

<< 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 General Business 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		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																			
COMP	2011	Introduction to Computing with Java		3																				
COMP	2012H	Programming with C++		4																				
		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																				
		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	3	3																		
MATH	1020	Calculus II		3																				
MATH	1023	Accelerated Calculus		4																				
MATH	1024	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)																			
<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	to substitute ISOM 2500								
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	This course will also be used to substitute ISOM 2700								
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	3	6									
IEDA	4960	Final Year Thesis		6																				
IEDA	4960	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																				
		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 General Business Management</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	This course will be counted as an IE major required course.								
ECON	2113	Principles of Microeconomics		3																				
		Microeconomics		3																				
ECON	2123	Note: ECON 2123 OR ECON 3123		3					3						3									
ECON	3123	Macroeconomics		3																				
FINA	2303	Macroeconomic Theory I		3																				
		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 IEDA2540								
ISOM	2600	Introduction to Business Analytics		1										1	1									
ISOM	2700	Operations Management		3	---	---	---	---	---	---	---	---	---	---	0	Substituted by IEDA 4100								
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	(3)																			
MATH	1013	Calculus IA		4																				
MATH	1013	Calculus IB		4																				
MATH	1020	Accelerated Calculus		4																				
MATH	1023	Honors Calculus I		3																				
		<b>Required credits for School Requirements</b>		39-40											23	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								
<b>Major Requirements</b>																								
Major Required Courses and Electives																								
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)		29					3	7	4	6	6	3	29									
<b>Required credits for Major Required Courses and Electives</b>				29											29									
<b>Additional Requirements</b>																								
<b>Requirements for Dual Degree Program</b>																								
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									
<b>Required credits for Additional Requirements</b>				7											7									
<b>University CORE</b>																								
CORE	C3 - C9	U CORE - Others		21		3	3		3	6	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									
<b>Sub-total for University CORE</b>				30											30									
															Term load (excl. free credits)									
															16	14	18	18	19	18	16	15	14	13
															161##									

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):

>> 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.