

<< 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 Mechanical Engineering 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 Mechanical Engineering																			
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										3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020				
COMP	2011	Introduction to Computing with Java	4																
COMP	2012H	Programming with C++	5																
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																
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																
MATH	1012	Calculus IA	4																
MATH	1013	Calculus IB	3	3	3									6					
MATH	1014	Calculus II	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	Note: MATH2111 OR MATH2350 OR MATH2351	3																
MATH	2350	Matrix Algebra and Applications	3							3				3					
MATH	2351	Applied Linear Algebra and Differential Equations	3																
MATH	2351	Introduction to Differential Equations	3																
PHYS	1112	Note: PHYS1112 OR PHYS1312	3		3									3					
PHYS	1312	General Physics I with Calculus	3																
PHYS		Honors General Physics I	3																
PHYS		[1 course from the specified course list]	3																
PHYS	1101	Introductory Physics	3		(3)									0					
CHEM	1008	Introductory Chemistry	3																
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3																
LIFS	1901	General Biology I	3																
Required credits for Engineering Fundamental Courses			22-26											18					
Major Required Courses and Electives																			
MECH	1990	Industrial Training	0			0*	0^							0					
MECH	1906	Mechanical Engineering for Modern Life	3			3								3					
MECH	2020	Statics and Dynamics	3			3								3					
MECH	2040	Solid Mechanics I	3											3					
MECH	2210	Fluid Mechanics	3							3				3					
MECH	2310	Thermodynamics	3			3								3					
MECH	2410	Engineering Materials I	3				3							3					
MECH	2520	Design and Manufacturing I	3				3							3					
MECH	3030	Mechanisms of Machinery	3							3				3					
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710	3																
MECH	3420	Energy Conversion	3																
MECH	3520	Engineering Materials II	3							3				3					
MECH	3520	Design and Manufacturing II	3																
MECH	3710	Manufacturing Processes and Systems	3																
MECH	3310	Heat Transfer	3							3				3					
MECH	3610	Control Principles	3					3						3					
MECH	3630	Electrical Technology	3						3					3					
MECH	3830	Laboratory	3								3			3					
MECH	3907	Mechatronic Design and Prototyping	3						3					3					
MECH	4900	Final Year Design Project	6									3	3	6					
ELEC	2420	Basic Electronics	3			3								3					
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0					
LANG	4034	Technical Communication II for Mechanical and Aerospace Engineering	3								3			3					
Required credits for Major Requirements Courses and Electives			51											54					
BBA in Economics																			
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													
ECON	2113	Principles of Microeconomics	3																
ECON	2113	Microeconomics	3																
ECON	2123	Note: ECON 2123 OR ECON 3123	3					3						3	ECON 2103 / 2113 / 2123 is a major pre-requisite				
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	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	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					
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students				
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																
MATH	1012	Calculus and Linear Algebra	3																
MATH	1013	Calculus IA	4	(3)															
MATH	1013	Calculus IB	3																
MATH	1020	Accelerated Calculus	4																
MATH	1023	Honors Calculus I	3																
Required credits for School Requirements			43-44											35					
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								3	4	4	11					
Required credits for Major Required Courses and Electives			23											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											7					
University CORE																			
CORE	C3 - C9	U CORE - Others	21				6					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											30					
Term load (excl. free credits)																			
15 18 15 18 18 19 16 18 15 15																			
167##																			