

<< 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 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														
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														
COMP	2011	Introduction to Computing with Java	3	3													
COMP	2012H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4-5														
MATH	1012	Note: (MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)	4-7														
MATH	1013	OR (MATH 1020)	4														
MATH	1014	Calculus IA	4														
MATH	1020	Calculus IB	3	3	3												
MATH	1023	Calculus II	3														
MATH	1024	Accelerated Calculus	4														
MATH	2011	Honors Calculus I	3														
MATH	2011	Honors Calculus II	3						3								
MATH	2111	Introduction to Multivariable Calculus	3														
MATH	2350	Note: MATH2111 OR MATH2350 OR MATH2351	3														
MATH	2351	Matrix Algebra and Applications	3														
MATH	2351	Applied Linear Algebra and Differential Equations	3														
PHYS	1112	Note: PHYS1112 OR PHYS1312	3														
PHYS	1312	General Physics I with Calculus	3														
PHYS	1312	Honors General Physics I	3														
PHYS	1101	[1 course from the specified course list]	3-4														
CHEM	1008	Introductory Physics	4														
CHEM	1012	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			19-25														
Major Required Courses and Electives																	
MECH	1990	Industrial Training	0					0*	0^								
MECH	1906	Mechanical Engineering for Modern Life	3					3									
MECH	2020	Statics and Dynamics	3					3									
MECH	2040	Solid Mechanics I	3									3					
MECH	2210	Fluid Mechanics	3									3					
MECH	2310	Thermodynamics	3					3									
MECH	2410	Engineering Materials I	3					3									
MECH	2520	Design and Manufacturing I	3					3									
MECH	3030	Mechanisms of Machinery	3														
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710	3														
MECH	3420	Energy Conversion	3														
MECH	3520	Engineering Materials II	3														
MECH	3710	Design and Manufacturing II	3														
MECH	3710	Manufacturing Processes and Systems	3														
MECH	3310	Heat Transfer	3														
MECH	3610	Control Principles	3														
MECH	3630	Electrical Technology	3														
MECH	3830	Laboratory	3														
MECH	3907	Mechatronic Design and Prototyping	3														
MECH	4900	Final Year Design Project	6														
ELEC	2420	Basic Electronics	3					3									
ENGG	2010	Engineering Seminar Series	0					0	0	0	0	0	0	0	0	0	
Required credits for Major Requirements Courses and Electives			51														
BBA in Management																	
School Requirements																	
ACCT	2010	Principles of Accounting I	3	3													
ACCT	2200	Principles of Accounting II	3														
ECON	2103	Note: ECON 2103 OR ECON 2113	3														
ECON	2113	Principles of Microeconomics	3														
ECON	2113	Microeconomics	3														
ECON	2123	Note: ECON 2123 OR ECON 3123	3														
ECON	3123	Macroeconomics	3														
FINA	2303	Macroeconomic Theory I	3														
FINA	2303	Financial Management	3														
ISOM	2010	Introduction to Information Systems	3														
ISOM	2020	Coding for Business	1														
ISOM	2500	Business Statistics	3	3													
ISOM	2600	Introduction to Business Analytics	1														
ISOM	2700	Operations Management	3														
MARK	2120	Marketing Management	3														
MGMT	2010	Business Ethics and the Individual	2														
MGMT	2110	Organizational Behavior	3														
MGMT	2130	Business Ethics and Social Responsibility	2														
MGMT	2130	Business Ethics and Social Responsibility	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	4														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
Required credits for School Requirements			39-40														
Major Requirements																	
Major Required Courses and Electives																	
MGMT	3110	Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.)	4														
MGMT	3120	Human Resources Management	4														
MGMT	3120	Managerial Leadership	4														
MGMT	3130	Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4														
MGMT	3140	Judgement and Decision Making in Organizations	4														
MGMT	3140	Negotiation	4														
MGMT	4210	Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.)	3-4														
MGMT	4220	Corporate Strategy	3														
MGMT	4220	Entrepreneurship and Innovation	4														
MGMT		MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.)	9														
Required credits for Major Required Courses and Electives			20-21														
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														
TEMG	4950	T&M Corporate Consulting Project	3-5														
Required credits for Additional Requirements			7														
University CORE																	
CORE	C3 - C9	U CORE - Others	21														
CORE	C1 & C2	U CORE - English Language	6	3	3												
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2												
Sub-total for University CORE			30														
Term load (excl. free credits)																	
16 17 18 15 18 19 15 12 14 14																	
158##																	

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.