

<< 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	Introduction to Computer Science	3														
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														
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	-	0	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020	
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	Matrix Algebra and Applications	3							3					3		
MATH	2350	Applied Linear Algebra and Differential Equations	3														
MATH	2351	Introduction to Differential Equations	3														
PHYS	1112	General Physics I with Calculus	3		3												
PHYS	1312	Honors General Physics I	3														
PHYS	1101	Introductory Physics	4														
CHEM	1008	Introductory Chemistry	3		(3)												
CHEM	1020	General Chemistry I	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^										
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								3						
MECH	3300	Energy Conversion	3									3					
MECH	3420	Engineering Materials II	3														
MECH	3520	Design and Manufacturing II	3														
MECH	3710	Manufacturing Processes and Systems	3														
MECH	3310	Heat Transfer	3									3					
MECH	3610	Control Principles	3							3							
MECH	3630	Electrical Technology	3								3						
MECH	3830	Laboratory	3										3				
MECH	3907	Mechatronic Design and Prototyping	3									3					
MECH	4900	Final Year Design Project	6										3	3	6		
ELEC	2420	Basic Electronics	3				3										
ENGG	2010	Engineering Seminar Series	0			0	0	0	0								
LANG	4034	Technical Communication II for Mechanical and Aerospace Engineering	3										3				
Required credits for Major Requirements Courses and Electives			51												54		
BBA in Management																	
School Requirements																	
ACCT	2010	Principles of Accounting I	3	3													
ACCT	2200	Principles of Accounting II	3							3							
ECON	2103	Principles of Microeconomics	3			3											
ECON	2113	Microeconomics	3														
ECON	2123	Macroeconomics	3						3								
ECON	3123	Macroeconomic Theory I	3														
FINA	2303	Financial Management	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													
ISOM	2600	Introduction to Business Analytics	1						1								
ISOM	2700	Operations Management	3										3				
MARK	2120	Marketing Management	3				3										
MGMT	2010	Business Ethics and the Individual	2										2				
MGMT	2110	Organizational Behavior	3				3									MGMT 2110 is a major pre-requisite	
MGMT	2130	Business Ethics and Social Responsibility	2											2			
LANG	2061	Professional Writing for the Workplace	3										3			Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060).	
LANG	2062	Professional Speaking for the Workplace	3														
LANG	3060	Advanced Academic Writing	3														
MATH	1003	Calculus and Linear Algebra	3-4														
MATH	1012	Calculus IA	4														
MATH	1013	Calculus IB	3		(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																	
MGMT	3110	Human Resources Management	4						4								Students in the Consulting Option must take MGMT 3120
MGMT	3120	Managerial Leadership	4														
MGMT	3130	Judgement and Decision Making in Organizations	4							4							Students in the Consulting Option must take MGMT 3140
MGMT	3140	Negotiation	4														
MGMT	4210	Corporate Strategy	3								3						Students in the Consulting Option must take MGMT 4210
MGMT	4220	Entrepreneurship and Innovation	4														Students in the CSR Option must take MGMT 4210
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									3	3	3	9		Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement.
Required credits for Major Required Courses and Electives			20-21												20		
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		
TEMG	3950	T&M Case Analysis and Product Innovation	3		3												
TEMG	4950	T&M Corporate Consulting Project	3-5						4								
Required credits for Additional Requirements			7												7		
University CORE																	
CORE	C3 - C9	U CORE - Others	21			3	3					6	3	6	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												30		
Term load (excl. free credits)																	
16 17 18 15 18 19 15 15 17 14																	
164##																	
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.