

<< 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	
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	3											3
COMP	2011	Introduction to Computing with Java	3												
COMP	2012H	Programming with C++	4												
LANG	2030	Honors Object-Oriented Programming and Data Structures	3												0
		Technical Communication I	3												0
		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
		Note: MATH2111 OR MATH2350 OR MATH2351													
MATH	2111	Matrix Algebra and Applications	3												
MATH	2350	Applied Linear Algebra and Differential Equations	3							3					3
MATH	2351	Introduction to Differential Equations	3												
		Note: PHYS1112 OR PHYS1312													
PHYS	1112	General Physics I with Calculus	3		3										3
PHYS	1312	Honors General Physics I	3												
		[1 course from the specified course list]	3												
PHYS	1101	Introductory Physics	3												
CHEM	1008	Introductory Chemistry	3		(3)										0
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*							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					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
		Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710													
MECH	3300	Energy Conversion	3								3				3
MECH	3420	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 Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3	3											3
ACCT	2200	Principles of Accounting II	3							3					3
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3			3									3
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
ECON	2123	Macroeconomics	3						3						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 2110 is a major pre-requisite													
MGMT	2130	Business Ethics and Social Responsibility	2										2		2
LABU	2040	Business Case Analyses	3												0
		Waived for DDP students													
LABU	2060	Effective Communication in Business	3												3
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3		(3)										0
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		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													
		Required credits for School Requirements	43-44												35
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							4					4
MGMT	3120	Human Resources Management	4												
		Managerial Leadership	4												
		Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)	4												
MGMT	3130	Judgement and Decision Making in Organizations	4							4					4
MGMT	3140	Negotiation	4												
		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	4210	Corporate Strategy	3								3				3
MGMT	4220	Entrepreneurship and Innovation	4												
		Students in the Consulting Option must take MGMT 4210													
		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										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				3					6	6	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 15 18 19 18 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 D