

<< 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 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												
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	
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												
PHYS	1312	General Physics I with Calculus		3		3									3	
PHYS		Honors General Physics I		3												
PHYS		[1 course from the specified course list]		3 or 4												
PHYS	1101	Introductory Physics		4												
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	
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710		3												
MECH	3420	Energy Conversion		3						3					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						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 General Business Management																
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								3	
ECON	2113	Principles of Microeconomics		3												
ECON	2123	Note: ECON 2123 OR ECON 3123		3					3						3	
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	
ISOM	2020	Coding for Business		1	-	-	-	-	-	-	-	-	-	-	0	
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		2	
LANG	2061	Note: LANG 2061 OR 2062 OR 3060		3								3			3	
LANG	2062	Professional Writing for the Workplace		3												
LANG	3060	Professional Speaking for the Workplace		3												
LANG	3060	Advanced Academic Writing		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												
MATH	1013	Calculus IB		3	(3)										0	
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																
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	4	4	6	6	6	29	
Required credits for Major Required Courses and Electives				29											29	
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			3	6				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	
Sub-total for University CORE				30											30	
Term load (excl. free credits)																
16 17 18 18 17 19 16 18 17 17																
173##																

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):