

An Example on Student's Pathway (as of August 8, 2024)

<< 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	
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												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	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]													
MATH	1014	Calculus IA	4												
MATH	1020	Calculus IB	3	3	3										6
MATH	1023	Calculus II	3												
MATH	1024	Accelerated Calculus	4												
MATH	1024	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	1312	Honors General Physics I	3												
PHYS	1312	[1 course from the specified course list]	3-4												
PHYS	1101	Introductory Physics	4												
CHEM	1008	Introductory Chemistry	3		(3)										0
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												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												
MECH	3520	Engineering Materials II	3							3					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
Required credits for Major Requirements Courses and Electives			51												51
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
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			39-40												32
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	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	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 15 14 17															
167##															

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):