

<< Declaration of BEng major << Declaration of BBA major

School:		School of Engineering and School of Business Management			Student's Pathway											
Program:		Dual Degree Program (BEng in Mechanical Engineering and BBA in Finance)														
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	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	Remarks	
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	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020	
COMP	2011	Introduction to Computing with Java	3													
COMP	2012	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)] OR [MATH 1020]	4-7													
MATH	1013	Calculus IA	4													
MATH	1014	Calculus IB	3	3	3									6		
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							3				3		
MATH	2350	Matrix Algebra and Applications	3													
MATH	2351	Applied Linear Algebra and Differential Equations	3													
PHYS	1112	Note: PHYS1112 OR PHYS1312	3		3									3		
PHYS	1312	General Physics I with Calculus	3													
		[1 course from the specified course list]	3-4													
PHYS	1101	Introductory Physics	4		(3)									0		
CHEM	1008	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											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		
Required credits for Major Requirements Courses and Electives			51											51		
BBA in Finance																
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	FINA 2303 is a major pre-requisite. Substituted by COMP 1021/ 1022P/ 2011/ 2012H	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students if they have taken and passed COMP 1021 or COMP 1029P	
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	1020	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
			(3)											0	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			39-40											32		
Major Requirements																
Major Required Courses and Electives																
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1		
FINA	3103	Intermediate Investments	3					3						3		
FINA	3203	Derivative Securities	3						3					3		
FINA	3303	Intermediate Corporate Finance	3							3				3		
FINA	3810	Bloomberg Market Concepts Certification	0					0						0		
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6													
ACCT	3020	Financial Accounting I	3							3				3		
ACCT	3030	Financial Accounting II	3													
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3													
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3								3			3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.	
ISOM	3400	Business Programming in VBA	3													
ISOM	3400	Business Applications Development in Python	3													
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9									3	3	3	9	
Required credits for Major Required Courses and Electives			25-28											25		
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				6					6	3	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 15 18 21 18 12 14 14																
163##																

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):