

<< 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 Economics)			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												
COMP	2011	Introduction to Computing with Java	3	3											
COMP	2012H	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
ENGG	1010	Academic Orientation	0	0	0										
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	-	0
MATH	1012	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										
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	2011	Introduction to Multivariable Calculus	3					3							
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351	3												
MATH	2350	Matrix Algebra and Applications	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												
PHYS	1312	Honors General Physics I	3												
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3												
Required credits for Engineering Fundamental Courses			22-26												18
Major Required Courses and Electives															
MECH	1990	Industrial Training	0					0*	0*						0
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
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												51
BBA in Economics															
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												3
ECON	2113	Microeconomics	3												3
ECON	2123	Note: ECON 2123 OR ECON 3123	3						3						3
ECON	3123	Macroeconomics	3												3
ECON	3123	Macroeconomic Theory I	3												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
SBMT	1111	Business Student Induction	0	-	-	-	-	-	-	-	-	-	-	-	0
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	-	0
LABU	2060	Effective Communication in Business	3								3				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												
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															
ECON	3014	Managerial Microeconomics	4						4						4
ECON	3024	Managerial Macroeconomics	4							4					4
ECON	3334	Introduction to Econometrics	4								4				4
ECON	4670	Economics Research and Communication	0									0			0
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11									3	4	4	11
Required credits for Major Required Courses and Electives			23												23
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 - C12	U CORE - Others	30	3	3	6	3					6	3	6	30
CORE	C1 & C2	U CORE - English Language	6	3	3										6
Sub-total for University CORE			36												36
Term load (excl. free credits)															
18 18 18 15 18 19 19 15 15 15															
170##															

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):