

<< Declaration of major

School:			Student's Pathway											
<b>School of Engineering and School of Business Management</b>			<b>Dual Degree Program (BEng in Mechanical Engineering and BBA in General Business Management)</b>											
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

**BEng in Mechanical Engineering**

**Major Requirements**

Engineering Fundamental Courses

COMP	1021	Note: COMP1021 OR COMP1022P OR COMP1022Q OR COMP2011 Introduction to Computer Science	3-4											
COMP	1022P		3	3										
COMP	1022Q		3											
COMP	2011		4											
ENGG	1010	Academic Orientation	0	0	0									0
LANG	2030	Technical Communication I	3				3							3
MATH	1012	Note: (MATH1012 OR MATH1013 OR MATH1020) AND (MATH1014 OR MATH1024) OR (MATH1020) Calculus IA	4											
MATH	1013		3	3										
MATH	1014		3											
MATH	1020		4											
MATH	1023		3											
MATH	1024	3												
MATH	2011	Introduction to Multivariable Calculus	3								3			3
MATH	2111	Note: MATH2111 OR MATH2350 OR MATH2351 Matrix Algebra and Applications	3								3			3
MATH	2350		3											
MATH	2351		3											
PHYS	1112	Note: PHYS1112 OR PHYS1312 General Physics I with Calculus	3											
PHYS	1312		3		3									3
CHEM/LIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		(3)									0
<b>Required credits for Engineering Fundamental Courses</b>			<b>22-26</b>											<b>21</b>

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	2907	Mechatronic Design and Prototyping	3							3					3
MECH	3030	Mechanisms of Machinery	3									3			3
MECH	3300	Note: MECH3300 OR MECH3420 OR MECH3520 Energy Conversion	3												
MECH	3420		3							3					3
MECH	3520		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	4900	Final Year Design Project	6									3	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
<b>Required credits for Major Requirements Courses and Electives</b>			<b>51</b>												<b>51</b>

**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 Principles of Microeconomics	3					3							3
ECON	2113		3												
ECON	2123	Note: ECON 2123 OR ECON 3123 Macroeconomics	3												
ECON	3123		3						3						3
FINA	2303	Financial Management	3							3					3
ISOM	2010	Introduction to Information Systems	3												0
ISOM	2020	Coding for Business	1												1
ISOM	2500	Business Statistics	3					3							3
ISOM	2600	Introduction to Business Analytics	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							3					3
LABU	2060	Effective Communication in Business	3							3					3
MATH	1003	Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023 Calculus and Linear Algebra	3-4												
MATH	1012		4	(3)											0
MATH	1013		3												
MATH	1020		4												
MATH	1023		3												
<b>Required credits for School Requirements</b>			<b>43-44</b>												<b>39</b>

**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 at 300-level or above.)	29					3				3	3	7	10	29
<b>Required credits for Major Required Courses and Electives</b>			<b>29</b>													<b>29</b>

**Additional Requirements**

Requirements for Dual Degree Program

Required Courses

TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMG	3950	Case-based Problem Solving	2					2							2
<b>Required credits for Additional Requirements</b>			<b>2</b>												<b>2</b>

**University CORE**

CORE	C3 - C12	U CORE - Others	30										6	3	6	3	30
CORE	C1 & C2	U CORE - English Language	6														6
<b>Sub-total for University CORE</b>			<b>36</b>														<b>36</b>

Term load (excl. free credits)											
18	17	18	18	19	18	18	18	18	18	16	
<b>178##</b>											

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- 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):