NUS DEPARTMENT OF MECHANICAL ENGINEERING

BEng (ME) & BBA Single Hons. Degree Programme
(Matriculating AY19/20 and AY20/21)

Single-Honour Degree Requirements		**Comments**
(A) University Level Requirements	**Total 20 MCs**	
GEMs (one from each GE Pillar)	20 MCs	Only 1 set is required; to be double-counted
(B) Business Programme Requirements	**Total 54 MCs**	
Core Modules	46 MCs	*Please see Table A for details.*
Electives / Specialisation Modules	8 MCs	Please see foot note (1)
(C) Engineering Programme Requirements	**Total 86 MCs**	
Engineering Modules	86 MCs	Includes Faculty & Discipline requirements (core, elective, projects & FYP Thesis). It is not compulsory for DDP students to do the Industrial Attachment.
(D) Common Modules	**Total 20 MCs**	
These modules count towards both degrees.	ES2531 (4 MCs)	*Please see foot note (2)*
	Four of the following modules (16 MCs): • Two BEng Modules • Two BBA Modules	*Please see Table B for details.*
(E) Unrestricted Elective Modules		
Unrestricted Elective		
TOTAL (minimum)	**180 MCs**	

1) It is not compulsory for DDP students to do a specialization for the BBA degree. Students who wish to specialize in a business area may have to read extra modules to meet the respective specialization requirement. DDP students whose home faculty is Business will be required to do a specialization if they withdraw from the DDP and return to the single degree programme in Business.

2) ES2531 Critical Thinking & Writing replaces ES2002 Business Communication for Leaders (BBA). It will be replaced by UWC2101% (for USP students), ES1601 (for RVRC students), and UTW2001% (for UTCP students).

Other Graduation Requirements (Refer to https://bba.nus.edu.sg/academic-programmes/bba-programme/curriculum-ay2017-2018-onwards/)

BIZ preparatory modules (zero-MC):

1. Academic orientation modules (online)*:
    a. BPM1701 Calculus & Statistics
    b. BPM1702 Microsoft Excel Skills for Business

2. Intensive 1st-year primer module*:
    a. BPM1705 Understanding How Business Works

3. Career Preparation Modules:
    a. Career Creation Starter Modules:
        i. STR1000 Career Creation Starter Workshops **
        ii. STR2000 Career Creation Starter Clinics **
    b. Global Immersion and Study

**These must be completed in the first semester. Late-entry DDP students must complete these in the first available semester of commencing DDP.*

***Students whose home faculty is not Business School will be granted a waiver of these two modules if they have already read and passed both CFG1010 Roots & Wings 1.0 and CFG2001 Roots & Wings 2.0 before 2018. There is no partial waiver or new substitutes.*

Sample Schedule for BEng (ME) & BBA Single Hons. Degree Programme
(Matriculating AY19/20 and AY20/21)

Year 1							
Semester 1		**MCs**		**Semester 2**		**MCs**	
MA1505	Mathematics I	4	C1*	MA1512	Differential Equations for Engineering	2	C1
CS1010E	Programming Methodology	4	C1	MA1513	Linear Algebra & Differential Equations	2	C1
ME1102	Engineering Principles and Practice I	4	C1	EG1311	Design and Make	4	C1
ACC1701	Accounting for Decision Makers	4	C2*	ME2104	Engineering Principles and Practice II	4	C1
GER1000	Quantitative Reasoning (GE 1 - QR)	4	CA*	GEQ1000	Asking Questions (GE2)	4	CA
MNO1706	Organisation Behaviour	4	C2	GE3	GET Thinking & Expression	4	CA
				DAO1704	Decision Analytics using Spreadsheet	4	C2
Sub-total		**24**		**Sub-total**		**24**	
Year 2							
Semester 3		**MCs**		**Semester 4**		**MCs**	
MLE1010	Materials Engineering Principles and Practice	4	C1	IE2141	Systems Thinking and Dynamics	4	C1
EE2211	Introduction to Machine Learning	4	C1	ME2121	Engineering Thermodynamics	4	C1
ME2112	Strength of Materials	4	C1	ME2102	Engineering Innovation and Modelling	4	C1
ME2134	Fluid Mechanics I	4	C1	ME2115	Mechanics of Machines	4	C1
ME2162	Manufacturing Processes	4	C1	MKT1705	Principles of Marketing	4	C2
ES2531	Critical Thinking and Writing	4	CA	BSP1702	Legal Environment of Business	4	C2
Sub-total		**24**		**Sub-total**		**24**	
Year 3							
Semester 5		**MCs**		**Semester 6**		**MCs**	
EG2401A	Engineering Professionalism	2	C1	Pathway Requirement 1		4	C1
ME2142	Feedback Control Systems	4	C1	BEng. Common Elective		4	CA
BSP1703	Managerial Economics	4	C2	MNO2705	Leadership and Decision Making Under Uncertainty	4	C2
DAO2702	Programming for Business Analytics	4	C2	BSP2701	Global Economy	2	C2
FIN2704	Finance	4	C2	DAO2703	Operations and Technology Management	4	C2
GE4		4	CA	GE5		4	CA
Sub-total		**22**		**Sub-total**		**22**	
Year 4							
Semester 7		**MCs**		**Semester 8**		**MCs**	
ME4101A ME4101B	B.Eng. Dissertation **OR** Mechanical Systems Design	4	C1	ME4101A ME4101B	B.Eng. Dissertation **OR** Mechanical Systems Design	4	C1
Pathway Requirement 2		4	C1	BEng. Common Elective 2		4	CA
BSP3701	Strategic Management	4	C2	BBA Common Elective 2		4	CA
BBA Common Elective 1		4	CA	Business Elective Module 2		4	C2
Business Elective Module 1		4	C2	Free Electives		4	C1
Sub-total		**20**		**Sub-total**		**20**	

Notes:
*__C1__ – Counted as B.Eng. degree requirement; **C2** – Counted as 2nd degree requirement; and **CA** – double-counted as both degree requirements

1) Pathway Requirements
    a. PPP –> ME4102 and ME4103
    b. Rfp –> 2x level-5000 modules
    c. iDP –> iDP Requirements

Please note that this is a sample schedule. You may customize your own schedule by taking into consideration the semester that the modules are offered and the pre- and co-requisites of each module.

Table A: BBA Core Modules

ACC1701 Accounting for Decision Makers	4 MC
BSP1702 Legal Environment of Business	4 MC
BSP1703 Managerial Economics	4 MC
BSP2701 Global Economy	2 MC
BSP3701 Strategic Management	4 MC
DAO1704 Decision Analytics using Spreadsheets	4 MC
DAO2702 Programming for Business Analytics	4 MC
DAO2703 Operations and Technology Management	4 MC
FIN2704 Finance	4 MC
MKT1705 Principles of Marketing	4 MC
MNO1706 Organisational Behaviour	4 MC
MNO2705 Leadership and Decision Making under Uncertainty	4 MC

Table B: List of Common Modules (Electives)

BEng Programme	**BEng modules that can be counted towards BBA requirements**	**BBA modules that can be counted towards BEng requirements**
Mechanical Engineering	• IE2110 Operations Research I* • IE4240 Project Management • EE3801 Data Engineering Principles • EE4802 Learning from Data • MT4002 Technology Management Strategy	• DOS3701 Supply Chain Management • DBA3701 Introduction to Optimisation* • DBA4811 Analytical Tools for Consulting

* IE2110 Operations Research I and DBA3701 Introduction to Optimisation are mutually precluded. Students who have completed either module are not allowed to read the other module.