

NUS DEPARTMENT OF MECHANICAL ENGINEERING

**BEng (ME) & BBA Double 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 74 MCs	
Core Modules	46 MCs	<i>Please see Table A for details.</i>
Electives / Specialisation Modules	8 MCs	Please see foot note (1)
Honours Requirements	20 MCs	
(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)	<i>Please see foot note (2)</i>
	Four of the following modules (16 MCs): <ul style="list-style-type: none"> • <u>Two BEng Modules</u> • <u>Two BBA Modules</u> 	<i>Please see Table B for details.</i>
(E) Unrestricted Elective Modules		
Unrestricted Elective		
TOTAL (minimum)	200 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 Double 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	B.Eng. Dissertation OR	4	C1	ME4101A	B.Eng. Dissertation OR	4	C1
ME4101B	Mechanical Systems Design			ME4101B	Mechanical Systems Design		
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		2	C1
Sub-total		20		Sub-total		20	
Year 5							
Semester 9		MCs					
Business Honours Requirements		20	C2				
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

2) Business Honours Requirements (20MCs):

BBA Honours by Research Pathway

- a) BHD4001 Dissertation in Area of Specialisation (12MCs)
- b) Advanced Independent Study Modules (8MCs) not related to dissertation research area or FSP4003 Field Service Project (8MCs)

OR

BBA Honours by Coursework Pathway

- a) Level-4000 business modules in area of specialization (12MCs)
- b) FSP4003 Field Service Project (8MCs)

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	<ul style="list-style-type: none">• IE2110 Operations Research I*• IE4240 Project Management• EE3801 Data Engineering Principles• EE4802 Learning from Data• MT4002 Technology Management Strategy	<ul style="list-style-type: none">• 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.