

NUS DEPARTMENT OF MECHANICAL ENGINEERING

**BEng(ME) & BBA(H) Double Hons. Degree Programme
(Matriculating AY17/18 and AY18/19)**

Double-Honours 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 (+4 MC common modules in Table B)	Please see Table A for details.
Electives (Specialization Modules [^])	8 MCs (+ 16 MCs common modules in Table C)	
Honours Requirements	20 MCs	Refer to http://bba.nus.edu/academic-programmes/bba-programme/curriculum-2017
(C) Engineering Programme Requirements	Total 86 MCs	
Engineering Modules	86 MCs (+ 20 MCs common modules in Tables B & C)	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.	ES1531 (4 MCs)	Please see Table B for details.
	Four of the following modules (16 MCs): <ul style="list-style-type: none"> • <u>Two</u> BEng Modules • <u>Two</u> BBA Modules 	Please see Table C for details.
(E) Unrestricted Elective Requirements		
Unrestricted Elective		
TOTAL (minimum)	200 MCs	

[^] It is not compulsory for DDP students to do a specialisation for the BBA degree, but they are still required to complete 24 MCs of electives based on the above arrangement. Students who wish to specialize in a business area may have to read extra modules to meet the respective specialization requirements. Business (home faculty) students who withdraw from the DDP and return to the BBA/BBA(H) single degree programme are still required to specialise.

**Other Graduation Requirements (Refer to <http://bba.nus.edu/academic-programmes/bba-programme/curriculum-2017>)
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 Semester Schedule for BEng (ME) & BBA(H) Double Hons. Degree Programme
(Matriculating AY17/18 and AY18/19)**

Year 1					
Semester 1	MCs		Semester 2	MCs	
MA1505 Mathematics I	4	C1*	MA1512 Differential Equations for Engineering	2	C1
PC1431 Physics IE	4	C1	MA1513 Linear Algebra & Differential Equations	2	C1
EG1111 Engineering Principles & Practice I	6	C1	EG1112 Engineering Principles & Practice II	6	C1
ACC1701 Accounting for Decision Makers	4	C2*	CS1010E Programming Methodology	4	C1
GER1000 Quantitative Reasoning (GE 1 - QR)	4	CA*	MNO1706 Organisation Behaviour	4	C2
			GEQ1000 Asking Questions (GE2)	4	CA
Sub-total	22		Sub-total	22	
Year 2					
Semester 3	MCs		Semester 4	MCs	
ME2112 Strength of Materials	4	C1	ME2121 Engineering Thermodynamics	4	C1
ME2151 Principles of Mechanical Engineering Materials	4	C1	ME2102 Engineering Innovation and Modelling	4	C1
ME2134 Fluid Mechanics I	4	C1	ME2115 Mechanics of Machines	4	C1
ME3162 Manufacturing Processes	4	C1	MKT1705 Principles of Marketing	4	C2
DAO1704 Decision Analytics using Spreadsheet	4	C2	BSP1702 Legal Environment of Business	4	C2
GE3 – GET Thinking & Expression	4	CA	ES1531 Critical Thinking and Writing	4	CA
Sub-total	24		Sub-total	24	
Year 3					
Semester 5	MCs		Semester 6	MCs	
ME3103 Mechanical Systems Design	6	C1	ME2142 Feedback Control Systems	4	C1
EG2401 Engineering Professionalism	2	C1	Pathway Requirement 1	4	C1
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	BEng. Common Elective 1	4	CA
Sub-total	24		Sub-total	22	
Year 4					
Semester 7	MCs		Semester 8	MCs	
ME4101A B.Eng. Dissertation (over 2 semesters)	4	C1	ME4101A B.Eng. Dissertation (over 2 semesters)	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	2	C1
GE5	4	CA			
Sub-total	24		Sub-total	18	
Year 5					
Business Honours Requirement [#]	20	C2			
Sub-total	20				

Notes:

* C1 – Counted as B.Eng. degree requirement; C2 – Counted as 2nd degree requirement; CA – Double – counted as both degree requirements

- Business Honours Requirements (20MCs):

BBA Honours by Research pathway

- (1) BHD4001 Dissertation in area of specialisation (12MCs)
- (2) Advanced Independent Study modules (8MCs) not related to dissertation research area or FSP4003 Field Service Project (8MCs)

OR

BBA Honours by Coursework pathway

- (1) Level-4000 business modules in area of specialisation (12MCs)
- (2) 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 Organizational Behaviour	4 MC
MNO2705 Leadership and Decision Making under Uncertainty	4 MC

Table B: List of Common Modules (Core)

ES1531 Critical Reading & Writing@ <u>or</u> UWC2101% (for USP) <u>or</u> ES1601 (for RVRC) <i>(in place of ES2002 Business Communication for Leaders (BBA))</i>	4 MC
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Table C: List of Common Modules (Electives)

BEng Programmes	BEng modules that can be counted towards BBA requirements	BBA modules that can be counted towards BEng requirements
Mechanical Engineering	IE2110 Operations Research I (anti-req: DBA3701 Introduction to Optimization) IE2130 Quality Engineering I IE4240 Project Management	DOS3701 Supply Chain Management DBA3701 Introduction to Optimization (anti- req: IE2110 Operations Research I) DBA4811 Analytical Tools for Consulting