

NUS DEPARTMENT OF MECHANICAL ENGINEERING

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

Single-Honours Degree Requirements		Comment
<b>(A) University Level Requirements</b>	<b>Total 20 MCs</b>	
GEMs (one from each GE Pillar)	20 MCs	Only 1 set is required; to be double-counted)
<b>(B) Business Programme Requirements</b>	<b>Total 54 MCs</b>	
Core Modules	46 MCs (+4 MCs common modules in Table B)	Please see Table A for details.
Electives (Specialization Modules <sup>^</sup> )	8 MCs (+16 MCs common modules in Table C)	
<b>(C) Engineering Programme Requirements</b>	<b>Total 86 MCs</b>	
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.
<b>(D) Common Modules</b>	<b>Total 20 MCs</b>	
These modules count towards both degrees.	ES1531 (4 MCs)	Please see Table B for details.
	<u>Four</u> of the following modules (16 MCs):  <ul style="list-style-type: none"> <li>• <u>Two</u> BEng Modules</li> <li>• <u>Two</u> BBA Modules</li> </ul>	Please see Table C for details.
<b>(E) Unrestricted Elective Requirements</b>		
Unrestricted Elective		
<b>TOTAL (minimum)</b>	<b>180</b>	

<sup>^</sup> 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 specialise in a business area may have to read extra modules to meet the respective specialisation 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) Hons & BBA Double 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
<b>Sub-total</b>	<b>22</b>		<b>Sub-total</b>	<b>22</b>	
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
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>24</b>	
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
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>22</b>	
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	CA
GE5	4	CA			
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>18</b>	

Notes:

\* C1 – Counted as B.Eng. degree requirement; C2 – Counted as 2<sup>nd</sup> degree requirement; CA – Double – counted as both degree 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 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
---	------

**Table C: List of Common Modules (Electives)**

<b>BEng Programmes</b>	<b>BEng modules that can be counted towards BBA requirements</b>	<b>BBA modules that can be counted towards BEng requirements</b>
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