

NUS DEPARTMENT OF MECHANICAL ENGINEERING
B.Eng(ME) & BBA. Double Degree Programme (Matriculating AY16/17)

Degree Requirements	Modular Credits (MCs)	Comment
(A) University Level Requirements	Total 20 MCs	
GEMs	20 MCs	5 GE Pillars
(B) Business Programme Requirements	Total 64 MCs	
Foundation Modules	52 MCs (+ 12 MCs of common modules)	See Table A for the list of Foundation Modules. See Table B for the list of Common Modules.
Essential Modules (Specialization Modules)	12 MCs (+ 12 MCs of common modules from Table C)**	Modules in this section are required for Business's specialization. *
(C) Engineering Programme Requirements	Total 82 MCs	Some engineering courses will have more than this. As it varies according to the engineering course, students should seek advice from their department on the recommended schedule.
Engineering Modules	82 MCs + common modules (24 MCs)	BEng Program requirements including Faculty & Discipline specific requirements (core, elective, projects & FYP Thesis). It is not compulsory for DDP students to do the Industrial Attachment
(D) Common Modules	Total 24 MCs	
These modules map towards both degrees.	<u>Three</u> common modules (12 MCs) (Please see Table B for details.)	These constitute part of the Business Foundation modules and the Engineering Faculty requirements.
	<u>Three</u> of the following modules (12 MCs) from Table C: ** <ul style="list-style-type: none"> • At least <u>One</u> BEng Module • At least <u>One</u> BBA Module 	
(E) Unrestricted Elective Requirements		
Unrestricted Elective	-	<i>Exempted under DDP Structure</i>
TOTAL	190 MCs	This is only the minimum requirement and will vary according to the engineering course. Students should seek advice from their department on the total MCs required to fulfil the DDP.

Sample Semester Schedule for B.Eng. (M.E.) Hons & B.B.A. Double Degree Programme (Matriculating AY16/17)

Year 1						
Semester 1		MCs		Semester 2		MCs
MA1505	Mathematics I (replaces DSC1007) [Table B]	4	CA*	MA1506	Mathematics II	4 C1
PC1431	Physics IE	4	C1*	ES1501X ¹	Critical Thinking and Expository Writing [Table B]	4 CA
EG1111	Engineering Principles & Practice I	6	C1	EG1112	Engineering Principles & Practice II	6 C1
ACC1002	Financial Accounting	4	C2*	CS1010E	Programming Methodology	4 C1
GER1000	Quantitative Reasoning (GE 1 - QR) ¹	4	CA	MKT1003	Marketing	4 C2
				GEQ1000	Asking Questions (GE2) ¹	4 CA
Sub-total		22		Sub-total		26
Year 2						
Semester 3				Semester 4		
ME2112	Strength of Materials	4	C1	ME2102	Engineering Innovation and Modelling	4 C1
ME2151	Principles of Mechanical Engineering Materials	4	C1	ME2121	Engineering Thermodynamics	4 C1
ME2134	Fluid Mechanics I	4	C1	ME3112	Mechanics of Machines	4 C1
ME3162	Manufacturing Processes	4	C1	BSP1004	Legal Environment of Business	4 C2
MNO1001	Management & Organisation	4	C2	BSP1005	Managerial Economics	4 C2
GE 3 ¹		4	CA	GE 4 ¹		4 CA
Sub-total		24		Sub-total		24
Year 3						
Semester 5				Semester 6		
ME3103	Mechanical Systems Design	6	C1	ME2142	Feedback Control Systems	4 C1
MNO2007	Leadership and Ethics (replaces EG2401) [Table B]	4	CA	ME	Technical Elective 1	4 C1
ACC2002	Managerial Accounting	4	C2	BSP2001	Macro and International Economics	4 C2
BSP2005	Asia Pacific Business Environment	4	C2	FIN2004	Finance	4 C2
				Singapore Studies (SS) Module		4 CA
Sub-total		18		Sub-total		20

Year 4					
Semester 7			Semester 8		
ME4101A B.Eng. Dissertation (over 2 semesters)	4	C1	ME4101A B.Eng. Dissertation (over 2 semesters)	4	C1
Pathway Requirement 1	4	C1	Pathway Requirement 2	4	C1
BEng. Common Elective 1 [Table C] ²	4	CA	MNO2009 Entrepreneurship	4	C2
DSC2006 Operations Management	4	C2	Business Essential Modules 2	4	C2
Business Essential Modules 1	4	C2	DSC2008 Business Analytics – Data & Decisions	4	C2
Sub-total	20		Sub-total	20	
Year 5					
Semester 9					
BSP3001 Strategic Management	4	C2			
B.B.A. Common Electives 2 [Table C] ²	4	CA			
Business Essential Modules 3	4	C2			
BEng/B.B.A. Common Electives 3 [Table C] ²	4	CA			
Sub-total	16				
Total MCs				190	

Notes:

⁻¹ Students are strongly encouraged to complete all the five GE modules latest by the end of Year 2.

⁻² THREE (3) modules from Table C with at least ONE (1) BEng and ONE (1) BBA module. Subject to the availability of common modules for the respective department of study and area of specialization. Students who are not reading modules listed in Table C will have to read two modules (one BEng module & one BBA module) for each common module requirement that is not satisfied subject to approval of FoE/Biz.

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

Please note that this semester schedule is only a sample, you can customized your own schedule taking into considerations the semester the modules are offered and the pre- and co-requisites of a module.

Table A: List of Compulsory Business Foundation Modules

S/No	Module Code	Module Title
1	ACC1002	Financial Accounting
2	MKT1003	Marketing
3	MNO1001	Management & Organisation
4	BSP1004	Legal Environment of Business
5	BSP1005	Managerial Economics
6	BSP2001	Macro and International Economics
7	ACC2002	Managerial Accounting
8	FIN2004	Finance
9	BSP2005	Asian Business Environments
10	DSC2006	Operations Management
11	DSC2008	Business Analytics – Data & Decisions
12	MNO2009	Entrepreneurship
13	BSP3001	Strategic Management

The remaining 3 modules (ES2002, MNO2007 and DSC2008) are listed in Table B as common modules which double-count towards both degrees.

Table B: List of 12 MCs of Common Modules that map to part of the Business Foundation Modules & Engineering Requirements for all BBA programmes

Module Code and Title
<p>DDP students are strongly encouraged to read ES1501X (e.g. ES1501 A or ES1501B) so that they do not need to read an additional communications module which will add to the total workload. However, if you are a DDP student who is also in the USP or University Town residential programme, the respective specially-tailored writing and communication modules that you are reading will be deemed as the equivalent of ES1501X.</p> <ul style="list-style-type: none"> • ES1501X Critical Thinking and Expository Writing (4MCs) or • ES1531 Critical Thinking & Writing (4MCs) + ES2002 Business Communication (4MCs) or • ES1531 Critical Thinking & Writing (4MCs) + ES2331 Communicating Engineering (4MCs) or • USP Writing and Critical Thinking module (4MCs) if you are a USP student or • ES1601 Professional and Academic Communication (4MCs) if you are residing in the Ridge View Residential College • Ideas and Exposition Modules offered by the University Town if you are in the University Town residential programme. These modules are: UTW1001X and UTW2001X (on a graded basis), which may be read in lieu of ES1531 and ES2331, respectively. <p>Depending on the options that you have chosen, the modules will be classified as:</p> <ul style="list-style-type: none"> • ES1501X (CA) • ES1531 (C1/C2) + ES2002 (CA) • ES1531 (C1/C2) + ES2331 (CA) • USP Writing and Critical Module Module (CA) • UTW1001X and UTW2001X (CA) offered by College of Alice & Peter Tan, Residential College 4 and Tembusu College. <p>Legend CA = grade included in calculating Cumulative Average Points (CAPs) of both degrees C1 = grade included in calculating CAP of primary degree</p> <p>- MNO2007 Leadership and Ethics (replaces EG2401 Engineering Professionalism) - MA1505 Mathematics I (replaces DSC1007 Business Analytics – Models & Decisions)</p>

Table C: Common Modules in the BEng & BBA Double Degree programme.***

BEng Programmes	BEng modules that can be counted towards BBA requirements*	BBA modules that can be counted towards BEng requirements*
Mechanical Engineering	IE4240 Project Management IE2110 Operations Research I <i>(anti-req: DSC3214 Int. to Optimization)</i> IE2130 Quality Engineering I <i>(anti-req: DSC3219 Quality Management)</i>	DSC3201 Supply Chain Management DSC3214 Introduction to Optimisation DSC4211B/DSC4213 Seminars in Ops & Supply Chain Management: Analytical Tools for Consulting DSC5211B Analytical Tools for Consulting