

NUS DEPARTMENT OF MECHANICAL ENGINEERING
B.Eng(ME) & BBA. (ACC) Degree Programme (Matriculating AY15/16)

Degree Requirements	Modular Credits (MCs)	Comment
(A) University Level Requirements	Total 20 MCs	
GEMs	20 MCs	
(B) Business Programme Requirements	Total 68 MCs (Min)	
Foundation Modules	44 MCs (+ 16 MCs of common modules)	See Table A for the list of Foundation Modules
Essential Modules	24 MCs (as shown in Table C)	Table C: List of Required Accounting Essential modules
(C) Engineering Programme Requirements	Total 95MCs (Min)	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	95 MCs + common modules (16 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 16 MCs	
These constitute part of the Business Foundation modules and the Engineering Faculty requirements.	<u>Four</u> common modules (16 MCs)	See Table B. These elective modules map towards both degrees.
(E) Unrestricted Elective Requirements	Total 8 MCs	
Unrestricted Elective	8 MCs	Table D: List of Required Accounting Professional Modules
TOTAL	207 MCs (Min)	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.

Please note that the curriculum is subject to changes and the MCs may vary.

Notes:

* Students can choose to specialize or not. If they choose to specialize, they will have to read modules contributing to their chosen area of specialization. For different areas of specialization, the total number of MCs required may vary.

** Subject to the availability of common modules for the respective department of study and area of specialization. Students have to read two modules (one BEng module & one BBA module) for each common module requirement that is not satisfied, subject to approval from FoE/Biz.

Sample Semester Schedule for B.Eng. (M.E.) & B.B.A. (ACC) Degree Programme (Matriculating AY15/16)

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	
EG1109M	Statics and Mechanics of Materials	4	C1	EG1108	Electrical Engineering	3	C1	
CS1010E	Programming Methodology	4	C1	ME2103	Engineering Visualisation and Modelling	3	C1	
ACC1002	Financial Accounting [Compulsory Foundation Business Module 1- Table A]	4	C2*	BSP1004	Legal Environment of Business [Compulsory Foundation Business Module 2-Table A]	4	C2	
GER1000	Quantitative Reasoning (GE 1 - QR) ²	4	CA	ACC1006	Accounting Information Systems [Compulsory Foundation Business Module 3-Table A]	4	C2	
				GE 2 ²		4	CA	
Sub-total		24		Sub-total		26		
Year 2								
Semester 3					Semester 4			
ME2113	Mechanics of Materials I	3	C1	ME2101	Fundamentals of Mechanical Design	4	C1	
ME2121	Engineering Thermodynamics	4	C1	ME2114	Mechanics of Materials II	3	C1	
ME2151	Principles of Mechanical Engineering Materials	4	C1	ME2135	Fluid Mechanics II	4	C1	
ME2134	Fluid Mechanics I	4	C1	ME2143	Sensors and Actuators	4	C1	
ACC2002	Managerial Accounting [Compulsory Foundation Business Module 4-Table A]	4	C2	FIN2004	Finance [Compulsory Foundation Business Module 5-Table A]	4	C2	
GE 3 ²		4	CA	GE4 ²		4	CA	
Sub-total		23		Sub-total		23		
Year 3								
Semester 5					Semester 6			
ME3103	Mechanical Systems Design	6	C1	ME2142	Feedback Control Systems	4	C1	
ME3122	Heat Transfer	4	C1	ME3112	Mechanics of Machines	4	C1	
ME3162	Manufacturing Processes	4	C1	MNO2007	Leadership and Ethics [replaces EG2401] [Table B]	4	CA	
MNO1001	Management & Organisation [replaces HR2002 - Table B]	4	CA	ACC3603	Assurance and Attestation [Accounting Essential Module 2 - Table C]	4	C2	
ACC3601	Corporate Accounting and Reporting [Accounting Essential Module 1 - Table C]	4	C2	ACC3604	Corporate and Securities Law [Accounting Essential Module 3 - Table C]	4	C2	
				Singapore Studies (SS) Module ²		4	CA	
Sub-total		22		Sub-total		24		

Year 4					
Semester 7			Semester 8		
ME4101A B.Eng. Dissertation (over 2 semesters)	4	C1	ME4101A B.Eng. Dissertation (over 2 semesters)	4	C1
ACC3605 Taxation [Accounting Essential Module 4 - Table C)	4	C2	ACC3619 Integrated Perspectives in Accounting & Business [Accounting Essential Module 6 - Table C)	4	C2
ACC3606 Advance Corporate Accounting & Reporting [Accounting Essential Module 5 - Table C)	4	C2	MKT1003 Marketing [Compulsory Foundation Business Module 6-Table A]	4	C2
ACC3614 Valuation [Accounting Professional Module 1 - Table D)	4	C2	BSP1005 Managerial Economics [Compulsory Foundation Business Module 7-Table A]	4	C2
ACC3616 Corporate Governance and Risk Management [Accounting Professional Module 2 - Table D)	4	C2	ME Technical Elective 1	4	C1
Sub-total	20		Sub-total	20	
Year 5					
Semester 9					
BSP2001 Macro and International Economics [Compulsory Foundation Business Module 8-Table A]	4	C2			
BSP2005 Asia Pacific Business Environment [Compulsory Foundation Business Module 9-Table A]	4	C2			
DSC2006 Operations Management [Compulsory Foundation Business Module 10-Table A]	4	C2			
BSP3001 Strategic Management [Compulsory Foundation Business Module 11-Table A]	4	C2			
ME Technical Elective 2	4	C1			
ME Technical Elective 3	4	C1			
Sub-total	24				
Total MCs				208	

Notes:

¹DDP students are encouraged to read ES1501X. However, in the event that students are not able to get ES1501X, they have to read one of the following choices as classified :

- ES1531 (C1) + ES2002 (CA)
- ES1531 (C1) + ES2331 (CA)
- USP Writing and Critical Thinking Module (CA)
- IEM1201X (C1) + IEM2201X (CA)

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

* 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 AY2012/2013 onwards

Module Code	Module Title
ACC1002	Financial Accounting
MKT1003	Marketing
BSP1004	Legal Environment of Business
BSP1005	Managerial Economics
BSP2001	Macro and International Economics
ACC2002	Managerial Accounting
FIN2004	Finance
BSP2005	Asia Pacific Business Environment
DSC2006	Operations Management
DSC2008	Business Analytics – Data & Decisions
MNO2009	Entrepreneurship (NEW)
BSP3001	Strategic Management

Table B: List of 16 MCs of Common Modules that map to part of the Business Foundation Modules & Engineering Requirements for all BBA programmes from AY2012/2013 onwards.

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 • Ideas and Exposition Modules offered by the University Town if you are in the University Town residential programme. These modules are: IEM1201x (on a graded basis) and IEM2201x (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) + ES2002 (CA) • ES1531 (C1) + ES2331 (CA) • USP Writing and Critical Module Module (CA) • IEM1201X (C1) + IEM2201X (CA) <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) - MNO1001 Management & Organization (replaces HR2002 Understanding Human Relations in the New Economy) - 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