

## Graduation requirements for Double Degree Programme

BEng (CEG), BBA for AY2016 intake - CEG requirements only  
Minimum MCs for BEng (CEG) and BBA: 202 or 206

	Degree Requirements		MCs	MCs
<b>A.</b>	<b>University Level Requirements (ULR)</b>			<b>20</b>
	One General Education Module (GEM) from each of the five pillars:			
	Human Cultures – GEH1xxx	CA	4	
	Asking Questions – GEQ1000	CA	4	
	Quantitative Reasoning – GER1000	CA	4	
	Singapore Studies – GES1xxx	CA	4	
	Thinking and Expression – GET1xxx	CA	4	
<b>B.</b>	<b>School of Business - BBA (Hons) Programme Requirements</b>			<b>64</b>
	For BBA (Hons) requirements, please refer to: <a href="http://bba.nus.edu/academic-programmes/bba-programme/curriculum">http://bba.nus.edu/academic-programmes/bba-programme/curriculum</a>	C2		
<b>C.</b>	<b>FoE &amp; SoC - BEng (CEG) Programme Requirements</b>			<b>94/98</b>
	<b>Major Requirements:</b>			
	<b>CEG Core Modules:</b>			
	CG1001 Introduction to Computer Engineering	C1	2	
	CG1108 Electrical Engineering	C1	4	
	CG2023 Signals & Systems	C1	4	
	CG2271 Real-time Operating Systems	C1	4	
	CG3207 Computer Architecture	C1	4	
	CS1010 Programming Methodology	C1	4	
	CS1020 Data Structures and Algorithms I	C1	4	
	CS1231 Discrete Structures	C1	4	
	CS2103/T Software Engineering	C1	4	
	EE2020 Digital Fundamentals	C1	5	
	EE2021 Devices & Circuits	C1	4	
	EE2024 Programming for Computer Interfaces	C1	5	
	EE3204 Computer Communication Networks I	C1	4	
	ES1531 Critical Thinking & Writing USP students read UWC2101% (CA) in lieu of ES1531. Requirement is waived for students who passed ES1501% (CA)	C1	4	
	MA1506 Mathematics II	C1	4	
	PC1432 Physics IIE	C1	4	
	ST2334 Probability & Statistics	C1	4	
	<b>CEG Core Projects:</b>			
	CG3002 Embedded Systems Design Project	C1	6	
	CG4001 B.Eng. Dissertation	C1	12	
	<b>CEG Technical Electives:</b>			
	(a) Depth (D) requirements - at least 2 technical Depth electives from any concentration	C1	8	
	(b) Unrestricted - at least 1 technical Breadth/Depth elective from any concentration	C1	4	
<b>D.</b>	<b>Common Modules</b>			<b>24</b>
	<b>Three Common Modules from BEng and BBA:</b> 12 MCs			
	CS2101 Effective Communication for Computing Professionals (or ES2002 / ES1501% / IEM2201%) Requirement is waived for USP students who passed UWC2101%. Any student who dropped out of USP will still be required to fulfil this requirement.	CA	4	
	MNO2007 Leadership and Ethics (replaces EG2401 Engineering Professionalism)	CA	4	
	MA1505 Mathematics I (replaces DSC1007 Business Analytics – Models & Decisions)	CA	4	

	<b>Three Common Modules from CEG/BBA:</b>	12 MCs			
	- EE3031 Innovation & Enterprise I		CA	4	
	- Minimum one CEG technical elective from Table 1		CA	4	
	- Minimum one BBA module from Table 1		CA	4	
<b>E.</b>	<b>Unrestricted Elective Requirements (UEM) - Exempted</b>		-	-	EXE
	<b>AY16 intake: TOTAL – BEng (CEG), BBA</b>				<b>202/206</b>

### CA / C1 / C2 CLASSIFICATION:

The modules that DDP students take are counted towards the CAP in the following manner

1 <sup>st</sup> Degree	Classified as <b>C1</b> in the database
2 <sup>nd</sup> Degree	Classified as <b>C2</b> in the database
Both 1 <sup>st</sup> and 2 <sup>nd</sup> degrees	Classified as <b>CA</b> in the database

Additional modules taken will be counted towards C1, except for modules offered by the faculty of the student's second degree, which will be classified as C2.

**Table 1: Common Modules in the BEng (CEG) & BBA Double Degree programme**

BEng modules***	BBA modules***
EE3031 Innovation & Enterprise I - compulsory for CEG	FIN3101 Corporate Finance FIN3102 Investment Analysis and Portfolio Management
CS4244 Knowledge Based Systems ( <i>anti-req</i> : DSC3213 <i>Strategic Information Sys</i> )	DSC3201 Supply Chain Management DSC3202 Purchasing & Materials Management
IE2110 Operations Research I ( <i>anti-req</i> : DSC3214 <i>Introduction to Optimization</i> )	DSC3212 Internet Business Models DSC3213 Strategic Information Systems
IE2130 Quality Engineering I	DSC3214 Introduction to Optimization ( <i>anti- req</i> : IE2110 Operations Research I) DSC3222L Dynamic Pricing and Revenue Management
	MNO3301 Organization Behavior BSP4511 Industry & Competitive Analysis
	DSC4211B/ DSC4213 Seminars in Ops & Supply Chain Management: Analytical Tools for Consulting DSC4211D/ DSC4212 SIOSCM: Managerial Decision Analysis

\*\*\* Subject to approval of student's host Department. This list may be updated by the Faculty of Engineering and School of Business acting in concert.

Other relevant information:

CEG Technical Electives - <http://www.ceg.nus.edu.sg/curriculum/electives.html>

Faculty of Engineering - [http://www.nus.edu.sg/prog/engbiz/program1617\(Hons\).html](http://www.nus.edu.sg/prog/engbiz/program1617(Hons).html)

Registrar's Office - <http://www.nus.edu.sg/registrar/education-at-nus/undergraduate-education/special-undergraduate-programmes/double-degree-programmes.html>