

Graduation requirements for Double Degree Programme

BEng (CEG), BA (Econs) for AY2017 - AY2019 intakes

- CEG requirements only, and with [Faculty of Engineering \(FoE\) as Home Faculty](#)

Minimum MCs for BEng (CEG) and BA (Econs): 182

	Degree Requirements		MCs	MCs
A.	University Level Requirements (ULR)			20
	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.	FASS - BA (Econs) Programme Requirements			52
	i) FASS Requirements			
	- Level 1000 exposure module (Asian Studies)	C2	16	
- Level 1000 exposure module (Social Sciences)				
- Level 1000 exposure module (Humanities)				
	- FAS1101			
	ii) Economics Programme Requirements			
	- Essential modules	C2	36	
	- Elective Major modules			
C.	FoE & SoC - BEng (CEG) Programme Requirements			102
	Major Requirements:			
	CEG Core Modules:			
	CG1111 Engineering Principles and Practice I	C1	6	
	CG1112 Engineering Principles and Practice II	C1	6	
	CS1010 Programming Methodology	C1	4	
	CS1231 Discrete Structures	C1	4	
	MA1511 Engineering Calculus	C1	2	
	MA1512 Differential Equations for Engineering	C1	2	
	MA1508E Linear Algebra for Engineering	C1	4	
	CG2023 Signals & Systems	C1	4	
	CG2027 Transistor-level Digital Circuits	C1	2	
	CG2028 Computer Organization	C1	2	
	CG2271 Real-Time Operating Systems	C1	4	
	CS2040C Data Structures and Algorithms	C1	4	
	CS2101 Effective Communication for Computing Professionals (in lieu of FAS1102)	CA	4	
	CS2113/T Software Engineering & Object-Oriented Programming	C1	4	
	EE2026 Digital Design	C1	4	
	EG2401A Engineering Professionalism	C1	2	
	ST2334 Probability & Statistics	C1	4	
	CG3207 Computer Architecture OR	C1	4	
	CS3230 Design and Analysis of Algorithms			
	CG4002 Computer Engineering Capstone Project	C1	8	
	EE4204 Computer Networks	C1	4	
	CEG Technical Electives			
	- at least 12 MCs technical Depth electives from any concentration	C1	24	
	- another 12 MCs technical Breadth/Depth electives from any concentration			

DDP BEng (CEG) & BA (Econs) for AY2017 - AY2019
(Updated October 2019)

D.	Common Modules			8
	One BEng (CEG) Technical Elective - from Table 1	CA	4	
	One BA (Econs) - from Table 1	CA	4	
E.	Unrestricted Elective Requirements (UEM): Exempted	-	-	EXE
	Total for BEng (CEG), BA (Econs)			182

CA / C1 / C2 CLASSIFICATION:

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

1 st Degree	Classified as C1 in the database
2 nd Degree	Classified as C2 in the database
Both 1 st and 2 nd degrees	Classified as CA 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: BEng (CEG) & BA modules that may be considered as common modules

BEng modules that can be counted towards BA - Economics major requirements*	BA - Economics modules that can be counted towards BEng requirements*
CS3243 Introduction to Artificial Intelligence CS3244 Machine Learning CS4244 Knowledge Representation and Reasoning EE3031 Innovation & Enterprise I EE4305 Fuzzy/Neural Systems for Intelligent Robotics EE4511 Renewable Generation and Smart Grid	EC3312 Game Theory & Applications to Economics EC3322 Industrial Organisation I EC3384 Resource and Energy Economics I EC4303 Econometrics IV EC4311 Mathematical Economics II EC4322 Industrial Organization II EC4372 Technology & Innovation EC4384 Resource and Energy Economics II EC5104 Mathematical Economics EC5314 Time Series Analysis EC5324 Cost-Benefit Analysis

* This list may be updated by the FoE and FASS acting in concert. Changes will be proposed by the Coordinating Committee, and will require approval by each Faculty's curriculum committee

Other relevant information:

CEG Technical Electives - <https://ceg.nus.edu.sg/curriculum/electives-ay17/>

Faculty of Engineering - <https://www.eng.nus.edu.sg/undergraduate/double-degrees/double-degree-programme-in-engineering-economics/>

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