

Graduation requirements for Double Degree Programme

B.Eng (CEG), B.SocSci (Hons) for AY2010, AY2011 and AY2012 intakes -
CEG requirements only

Minimum MC for B.Eng (CEG) + B.SocSci (Hons): 209 MCs **or 212 MCs**

	Degree Requirements		MCs	MCs
A.	University Level Requirements (ULR)			12
	General Education Module x 1 (from Subject Group A: Science & Technology)	CA	4	
	General Education Module x 1 (from Subject Group B: Humanities & Social Sciences)	CA	4	
	Singapore Studies x 1	CA	4	
B.	FASS - B.SocSci (Hons) Programme Requirements			69
	For B.SocSci (Hons) requirements, please refer to http://www.nus.edu.sg/prog/engecon/	C2		
C.	FoE & SoC - B.Eng (CEG) Programme Requirements			84 / 87
	Major Requirements:			
	CEG Core Modules:			
	CG1101/CS1010 Programming Methodology	C1	4	
	CG1103/CS1020 Data Structures and Algorithms I	C1	4	
	CG1108 Electrical Engineering	C1	4	
	CG1413 Effective Team Communication	C1	4	
	CG2007 Microprocessor Systems / EE2024 Programming for Computer Interfaces [Note: change from 4 to 5 MCs wef AY2013/14]	C1	4 / 5	
	CG2271 Real-time Operating Systems	C1	4	
	CG3207 Computer Architecture	C1	4	
	CS1231 Discrete Structures	C1	4	
	CS2103 Software Engineering	C1	4	
	EE2020 Digital Fundamentals [Note: change from 4 to 5 MCs wef AY2013/14]	C1	4 / 5	
	EE2021 Devices & Circuits	C1	4	
	EE2023 Signals & Systems	C1	4	
	EE2031 Circuits and Systems Design Lab [Note: change from 2 to 3 MCs wef AY2013/14]	C1	2 / 3	
	EE3204 Computer Communication Networks I	C1	4	
	PC1432 Physics IIE	C1	4	
	CEG Core Projects:			
	CG3002 Embedded Systems Design Project	C1	6	
	EE3001 Project / EE3031 Innovation & Enterprise I [# Note: EE3001/EE3031 is a Major requirement. If EE3001/EE3031 is counted towards CA, the Common Module of 'one B.Eng (CEG) - CEG technical elective from Table 1' will be counted towards C1, and vice versa.]	C1/ CA	4	
	CEG Technical Electives			
	(a) Depth (D) requirements - at least 3 technical Depth electives from any concentration	C1	12	
(b) Unrestricted - at least 1 technical Breadth/Depth elective from any concentration	C1	4		
D.	Common Modules			44
	Faculty Requirements: 20 MCs			
	MA1505 Mathematics I	CA	4	
	MA1506 Mathematics II	CA	4	
	PH2208 Applied Ethics <u>or</u> PH2218 Business Ethics <u>or</u> PH2223 Introduction to the Philosophy of Technology (replaces EG2401 Engineering Professionalism)	CA	4	
	SC2202 Sociology of Work <u>or</u> SC1101E Making Sense of Society (replaces HR2002 Human Capital in Organizations)	CA	4	
	ST2334 Probability and Statistics (<u>or</u> EC2303 / EE2012 / ST1131 / ST1131A / MA3501 / CN3421) Note: CEG students are required to read ST2334. If a DDP (CEG, Econs) student has already read EC2303, he/she must still read ST2334.	CA	4	

CEG / FASS Core Projects: 16 MCs				
(i) XF4401 Integrated Project (over 3 sem) OR (ii) Separate FYPs [CG4001 B.Eng, Dissertation (12 MCs, C1) + 1 CEG Breadth/Depth Technical Elective (4 MCs, C1)] AND [EC4401 Honours Thesis (15 MCs, C2) or 3 EC4xxxx in place of Econs thesis (no 1st class Hons for BSocSci, 15 MCs, C2)]		CA	16	
Common Modules from CEG / FASS: 8 MCs				
One B.Eng. (CEG) Technical Elective - from Table 1 [# Note: If the Common Module of 'one B.Eng (CEG) - CEG technical elective from Table 1' is counted towards CA, EE3001/EE3031 will be counted towards C1, and vice versa.]		CA/ C1	4	
One B.A (Econs) - from Table 1		CA	4	
E.	Unrestricted Elective Requirements (UEM) Exempted	-	-	EXE
AY10, AY11 and AY12 intakes: TOTAL – B.Eng. (CEG), B.SocSci (Hons)				209 / 212

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: B.Eng. (CEG) & B.A. 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***
EE3001 Project / EE3031 Innovation & Enterprise I [Note: EE3001/EE3031 is a Major requirement for CEG. If EE3001/EE3031 is counted towards CA, the Common Module of 'one B.Eng (CEG) - CEG technical elective from Table 1' will be counted towards C1, and vice versa.]	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
EE4305 Introduction to Fuzzy/Neural Systems EE4511 Sustainable Energy Systems CS3243 Foundations of Artificial Intelligence CS3244 Machine Learning CS4244 Knowledge Based Systems	

*** 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 - <http://www.ceb.nus.edu.sg/students/ceb3TE/>

Faculty of Engineering - http://www.eng.nus.edu.sg/ugrad/SP_ddp.html

Registrar's Office - <http://www.nus.edu.sg/registrar/edu/UG/spugp-double-degree.html>