

COMPUTER ENGINEERING - Single Honours

Single Honours Degree Requirements	MCS	Remarks	Classification
(A) University Level Requirements			
General education modules:			
GER1000 Quantitative Reasoning	4	Only 1 set needs to be completed for both BEng and BBA degrees. May be replaced by selected USP, RVRC or UTCP modules.	CA
GEQ1000 Asking Questions	4		CA
GET	4		CA
GEH	4		CA
GES	4		CA
Sub-total for University Level Requirements	20		
(B) Engineering Programme Requirements			
Faculty requirements:			
EG2401A Engineering Professionalism	2		C1
CS2101 Effective Communication for Computing Professionals	4	Can be replaced by UWC2101% (for USP students), ES1601 (for RVRC students), or UTW2001% (for UTCP students).	CA
CEG core modules:			
CG1111 Engineering Principles and Practice I	6		C1
CG1112 Engineering Principles and Practice II	6		C1
CS1010 Programming Methodology	4		C1
CS1231 Discrete Structures	4		C1
MA1511 Engineering Calculus	2		C1
MA1512 Differential Equations for Engineering	2		C1
MA1508E Linear Algebra for Engineers	4		C1
CG2023 Signals and Systems	4		C1
CG2027 Transistor-level Digital Circuits	2		C1
CG2028 Computer Organization	2		C1
CG2271 Real-time Operating Systems	4		C1
CS2040C Data Structures and Algorithms	4		C1
CS2113T Software Engineering & Object-Oriented Programming	4		C1
EE2026 Digital Design	4		C1
ST2334 Probability and Statistics	4		C1
CG3207 Computer Architecture or CS3230 Design and Analysis of Algorithms	4		C1
EE4204 Computer Networks	4		C1
CEG project and internship modules:			
CG4002 Computer Engineering Capstone Project	8		C1
EG3611A Industrial Attachment or CP3880 Advanced Technology Attachment Programme	-	Exempted for DDP students	-
CEG electives:			
CEG technical electives	10		C1
CEG technical electives (depth)	12		C1
Sub-total for Engineering Programme Requirements	100		
(C) FASS Faculty Requirements			
Level 1000 exposure module - Asian Studies	4	Choose one from the following: CH1101E, CL1101E, JS1101E, MS1102E, SE1101E, SN1101E	C2
Level 1000 exposure module - Social Sciences	4	EC1101E Introduction to Economic Analysis	C2
Level 1000 exposure module - Humanities	4	Choose one from the following: EL1101E, EN1101E, TS1101E, HY1101E, GET1029	C2
FAS1101 Writing Academically: Arts and Social Sciences	4		C2
Sub-total for FASS Faculty Requirements	16		
(D) Economics Major Requirements			
Essential modules:			
EC2101 Microeconomic Analysis I	4		C2
EC2102 Macroeconomic Analysis I	4		C2
EC2104 Quantitative Methods for Economic Analysis	4		C2
EC3101 Microeconomic Analysis II	4		C2
EC3102 Macroeconomic Analysis II	4		C2
EC3303 Econometrics I	4		C2
Elective modules:			
EC elective 1 (Level 2000/3000)	4		C2
EC elective 2 (Level 3000)	4		C2
EC elective 2 (Level 3000)	4		C2
Sub-total for Economics Major Requirements	36		
(E) Common Modules			
BEng module	4	Select from list of Common Modules	CA
EC module	4		CA
Sub-total for Common Modules	8		
TOTAL (minimum)	180		