

COMPUTER ENGINEERING – SECOND MAJOR IN INNOVATION & DESIGN



Technopreneur

FOR COHORT AY2021/2022 ONWARDS	MC
Common Curriculum	60
GESS Singapore Studies	4
GEC Cultures and Connections	4
GEN Communities and Engagement	4
ES2531 Critical Thinking and Writing	4
CS1010 Programming Methodology	4
GEA1010 Quantitative Reasoning with Data	4
DTK1234 Design Thinking	4
EG1311 Design and Make	4
IE2141 Systems Thinking and Dynamics	4
EE2211 Introduction to Machine Learning	4
EG2501 Liveable Cities Creating Narratives	4
PF1101 Fundamentals of Project Management	4
CG4002 Computer Engineering Capstone Project	8
Major Requirements	60
MA1511 Engineering Calculus	2
MA1512 Differential Equations for Engineering	2
MA1508E Linear Algebra for Engineering	4
EG2401A Engineering Professionalism	2
CP3880 Advanced Technology Attachment Programme or EG3611 Industrial Attachment	12 or 10
CG1111A Engineering Principles and Practice I	4
CG2111A Engineering Principles and Practice II	4
CS1231 Discrete Structures	4
CG2023 Signals & Systems	4
CG2027 Transistor-level Digital Circuits	2
CG2028 Computer Organization	2
CG2271 Real-time Operating Systems	4
CS2040C Data Structures and Algorithms	4
CS2113 Software Engineering & Object-Oriented Programming	4
EE2026 Digital Design	4
EE4204 Computer Networks	4
Second Major in Innovation & Design	40
Group A (select 1 module): User-Centered Collaborative Design	4
EG2201A User-Centred Collaborative Design	4
EG2310 Fundamentals of Systems Design	4
Group B (select 1 module): Case Studies in Innovation	4
EG2301 Case Studies in Innovation	4
EG2311 Introduction to Space Systems	4
EG2606B Independent Work	4
Group C: Innovation & Enterprise electives (select modules worth 8 MC)	8
Projects	24
EG3301R DCP Project	12
#EG4301 DCP Dissertation / EG4301A Ideas to Start-up	12
Refer to https://www.eng.nus.edu.sg/idp/academics/idp-second-major-cohort-ay2021-2022/ for more details	
*Other Unrestricted Electives	8
TOTAL	160
#The 12 MCs for EG4301/EG4301A are counted towards 8 MCs for the Integrated Project requirement in the Common Curriculum while 4 MCs are counted as Unrestricted Electives.	

*The listed modules are subject to change.