

MECHANICAL ENGINEERING – MINORS IN QUANTITATIVE FINANCE AND ECONOMICS (CAREER IN FINANCE)

FOR COHORT AY2021/2022 ONWARDS	MC
Common Curriculum	60
Singapore Studies	4
Cultures and Connections	4
Communities and Engagement	4
Critical Thinking and Writing	4
Programming Methodology	4
Quantitative Reasoning with Data	4
Design Thinking	4
Design and Make	4
Systems Thinking and Dynamics	4
Introduction to Machine Learning	4
Liveable Cities	4
Creating Narratives	4
Fundamentals of Project Management	4
B.Eng. Dissertation <u>or</u> Mechanical Systems Design	8
Major Requirements	60
Mathematics I	4
Differential Equations for Engineering	2
Linear Algebra and Differential Equations	2
Engineering Professionalism	2
Industrial Attachment	10
Engineering Principles & Practice I	4
Engineering Principles & Practice II	4
Strength of Materials	4
Engineering Thermodynamics	4
Fluids Mechanics I	4
Feedback Control Systems	4
Mechanics of Machines	4
Manufacturing Processes	4
Engineering Innovation and Modelling	4
Technical Elective	4
Minor in Quantitative Finance (See here for latest detailed minor requirements.)	20
Introduction to Quantitative Finance	4
Basic Applied Mathematics* (can be replaced by other modules – see above link)	4
Fundamentals of Quantitative Finance	4
Investment Instruments and Risk Management	4
Advanced Mathematics in Quantitative Finance / Regression Analysis /	4
Econometrics I / Investment Analysis and Portfolio Management / Financial	
Modelling	
Minor in Economics (See here for latest detailed minor requirements.)	20
At least 20MCs of EC-coded or EC-recognised (max 4 MCs) modules including:	
Introduction to Economic Analysis	4
Microeconomic Analysis I and/or Macroeconomic Analysis I	4 or 8
TOTAL	160