



**Mechanical Engineering at Hong Kong University
of Science and Technology
(Junior Spring)**

Approved 18 July 2017 by Prof. K. Frampton

Semester 1	Course	Hrs
CHEM 1601, 1601L (102A, 104A)	General Chemistry	4
ES 1401, 2, 3 (140A, B, C)	Intro to Engineering	3
MATH 1300 (155A)	Acc Single-Var Calculus I	4
	LAC	3
	Vanderbilt Visions	0
	total hours	14

Semester 2	Course	Hrs
CS 1101 or 1103 (101 or 103)	Programming	3
MSE 1500, 1500L (150, 150L)	Materials Science I	4
MATH 1301 (155B)	Acc Single-Var Calculus II	4
PHYS 1601, 1601L (116A, 118A)	General Physics I	4
	total hours	15

Semester 3	Course	Hrs
CE 2200 (180)	Statics	3
MATH 2300 (175)	Multivariable Calculus	3
ME 2160 (160)	Intro to ME Design	3
PHYS 1602, 1602L (116B, 118B)	General Physics II & Lab	4
	LAC	3
	total hours	16

Semester 4	Course	Hrs
EECE 2112 (112)	Circuits I	3
MATH 2420 (198)	Methods of Ord Diff Eqs	3
ME 2190 (190)	Dynamics	3
ME 2171 (171)	Instrumentation Lab	2
ME 2220 (220)	Thermodynamics	3
	LAC	3
	total hours	17

Semester 5	Course	Hrs
CE 2205 (182)	Mechanics Of Materials	3
ME 3202 (202)	Mach Analysis and Design	3
ME 3224 (224)	Fluid Mechanics	3
ME 3234 (234)	Systems Dynamics	4
MSE 2205 (232)	Stre & Stru of Engr Mtls	1
	LAC	3
	total hours	17

Semester 6	at HKUST	Hrs
MECH 2907 (3 hrs ME 3204)	Mechatronic Design & Prototyping	3
	ME elective	3
	Math elective	3
	Technical elective	3
	Open elective	3
	total hours	15

Semester 7	Course	Hrs
ME 4213 (213)	Energetics Laboratory	2
ME 4950 (242)	Design Synthesis	2
ME 4959 (297)	Sr Engr Design Seminar	1
	ME elective	3
	Technical elective	3
	LAC	6
	total hours	17

Semester 8	Course	Hrs
ME 4951 (243)	Eng Design Projects	3
ME 3248 (248)	Heat Transfer	3
	ME elective	3
	Technical elective	3
	Open elective	3
	total hours	15

Total hours = 126

This curriculum plan is a guide but is NOT authoritative. The Undergraduate Catalog is the authoritative document regarding degree requirements. Students considering studying abroad should consult the catalog and discuss their plans with their academic advisers.