



Approved 17 Feb 2016 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
	LAC	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
	total hours	16

Semester 4	Course	Hrs
EECE 2112 (112)	Circuits I	3
	LAC	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
	total hours	17

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

Semester 6	at U. Auckland	Hrs
	MATH elective	3
CIVIL 230 (ME 3224(224))	Fluid Mechanics I	3
	ME elective	3
	ME elective	3
	LAC	3
	total hours	15

Semester 7	Course	Hrs
	Open Elective	3
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	6
	total hours	17

Semester 8	Course	Hrs
	LAC	3
ME 3204 (204)	Mechatronics	3
ME 4951 (243)	Eng Design Projects	3
ME 3248 (248)	Heat Transfer	3
	Open elective	3
	total hours	15

**Total hours = 126**

*This curriculum plan is a guide that follows the ME degree requirements as of fall 2015. It 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.*