

ME Study Abroad Curriculum for The University of Auckland

1 st Semester			2 nd Semester		
ENGL 15/30	English	3	Econ 2/4	Economics	3
FYS	1 st year Seminar	1	CHEM 112	Chemical Principles 2	3
EDSGN 100	Intro to Engineering Design	3	GA,GH,GS	General Education	3
GA,GH,GS	General Education	3	PHYS 211	Mechanics	4
CHEM 110	Chemical Principles 1	3	MATH 141	Calculus 2	4
MATH 140	Calculus 1	4			
	Total	17		Total	17

3 rd Semester			4 th Semester		
CMPSC 200	MATLAB	3	EMCH 212	Dynamics	3
CAS 100	Speech Communications	3	EMCH 213	Strength of Materials	3
EMCH 211	Statics	3	GHA	Health & Physical Activity	1.5
MATH 220	Matrices	2	ME 300	Thermodynamics	3
MATH 231	Calculus 3	2	MATH 251	Differential Equations	4
PHYS 212	Electricity & Magnetism	4	PHYS 214	Wave and Quantum Physics	2
	Total	17		Total	16.5

5 th Semester			6 th Semester – University of Auckland		
EE 212	Electronic Systems	3	MECHENG 340 ²	Mechanics of Materials 2	15
ME 370	Mechanical Vibrations	3	MECHENG 334 ¹	Engineering Design	15
GHA	Health & Physical Activity	1.5	ETE ³	Engineering Tech Elective	15
ME 320	Fluid Dynamics	3	GA,GH,GS	General Education	15
ME 345	Instrumentation & Statistics	4			
GA,GH,GS	General Education	3			
	Total	17.5		Total	60

¹MECHENG 334 (ME 360); ²MECHENG 340 (EMCH 315 & MATSE 259); MECHENG 334, MECHENG 340 & Elective transfer as 12 credits: 6 credits of direct transfer, 3 credits as ETE and excess as GTE.

7 th Semester			8 th Semester		
ENGL 202C	Technical Writing	3	ETE	Engineering Tech Elective	3
IE 312	Manufacturing Processes	3	GA,GH,GS	General Education	3
ME 340	Design Methodology	3	ME 450	Dynamic System Modeling	3
ME 410	Heat Transfer	3	ME 440/441	Capstone Design Project	3
EMCH 316	Materials Response Laboratory	1	METE	ME Tech Elective	3
ME Lab	Lab	1	ME Lab	Lab	1
	Total	14		Total	16