

MECHANICAL AND NUCLEAR ENGINEERING

ME Study Abroad Curriculum for The University of New South Wales



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 – UNSW		
EE 212	Electronic Systems	3	MMAN 3200 ¹	Linear Systems & Control	6
EMCH 315	Mech Materials Response	2	MANF 3100 ²	Product & Manu. Design	6
ME 320	Fluid Dynamics	3	ETE	Engineering Technical Elective	6
ME 345	Instrumentation & Statistics	4	GA,GH,GS	General Education	6
MATSE 259	Properties of Eng Materials	3			
GHA	Health & Physical Activity	1.5			
	Total	16.5		UNSW Credits	24

¹ MMAN3200 (ME450); ² MANF3100 (IE312); ETE transfer as 12 credits; 9 credits used as direct course substitutions and 3 excess credits used as GTE

7 th Semester			8 th Semester		
ME 370	Vibration of Mechanical Systems	3	ME 440/441	Capstone Design Project	3
ME 340	Design Methodology	3	ME Lab	Lab	1
ME 410	Heat Transfer	3	METE	ME Tech Elective	3
ME 360	Machine Components	3	ETE	Engineering Tech Elective	3
ME Lab	Lab	1	GA,GH,GS	General Education	3
ENGL 202C	Technical Writing	3	GA,GH,GS	General Education	3
	Total	16		Total	16