

## ME Study Abroad Curriculum for the National University of Singapore

1 <sup>st</sup> Semester		
ENGL 15/30	English	3
FYS	1 <sup>st</sup> Year Seminar	1
EDSGN 100	Intro to Engineering Design	3
GA, GH, GS	General Education	3
CHEM 110	Chemical Principles 1	3
MATH 140	Calculus 1	4
	Total	17

2 <sup>nd</sup> Semester		
ECON 2/4	Economics	3
CHEM 112	Chemical Principals 2	3
GA, GH, GS	General Education	3
PHYS 211	Mechanics	4
MATH 141	Calculus 2	4
	Total	17

3 <sup>rd</sup> Semester		
CMPS 200	MATLAB	3
CAS 100	Speech Communications	3
EMCH 211	Statics	3
MATH 220	Matrices	2
MATH 231	Calculus 3	2
PHYS 212	Electricity & Magnetism	4
	Total	17

4 <sup>th</sup> Semester		
EMCH 212	Dynamics	3
EMCH 213	Strength of Materials	3
GHA	Health & Physical Activity	1.5
ME 300	Thermodynamics	3
MATH 251	Differential Equations	4
PHYS 214	Wave and Quantum Physics	2
	Total	16.5

5 <sup>th</sup> Semester		
EE 212	Electronic Systems	3
EMCH 315	Mech. Response of Engr. Materials	2
ME 320	Fluid Dynamics	3
ME 345	Instrumentation & Statistics	4
MATSE 259	Properties of Engr. Materials	3
GHA	Health & Physical Activity	1.5
	Total	16.5

6 <sup>th</sup> Semester - NUS		
ME 2101 <sup>1</sup>	Fundamentals of Machine Design	4
ME 4213 <sup>2</sup>	Vibrations Theory & Applications	4
ETE	Engineering Technical Elective	4
GA, GH, GS	General Education	4
GA, GH, GS	General Education	4
	NUS Module Credits	20

<sup>1</sup> ME 2101 (ME 360); <sup>2</sup> ME 4213 (ME 370)

7 <sup>th</sup> Semester		
IE 312	Manufacturing Processes	3
ME 340	Design Methodology	3
ME 410	Heat Transfer	3
ME 450	Dynamic System Modeling	3
ME Lab	Lab	1
ENGL 202C	Technical Writing	3
	Total	16

8 <sup>th</sup> Semester		
ME 440/441	Capstone Design Project	3
ME Lab	Lab	1
METE	ME Tech Elective	3
ETE	Engineering Technical Elective	3
GTE	General Technical Elective	1
GA, GH, GS	General Education	3
	Total	16