

B.Eng. (Bioengineering)
Suggested Study Plan for AY14-15 intake
with Industrial Orientation

Year 1 Semester 1

Course	AU
BG1101 Introduction to Biomedical Engineering	2
MH1810 Math 1	3
PH1011 Physics	3
or	
PH1012 *Physics A (For students without A-Level Physics)	4*
BG1103 Chemistry for Engineers	3
BG1801 Bioengineering Lab 1A	1
HW0110 Effective Communication	2
AB1101 Accounting I	4
AB1201 Financial Management	3
21	
22*	

Year 1 Semester 2

Course	AU
BG1105 Materials Science	3
BG1117 Engineering Mathematics	4
BG1109 Anatomy and Physiology	3
BG1802 Bioengineering Lab 1B	1
GER elective 2	3
AB1501 Marketing	3
BE1401 Business Operations and Processes	4
21	

Year 2 Semester 1

Course	AU
BG2112 Cardiovascular Engineering	4
BG2131 Biomaterials	3
BG2141 Mechanics of Materials	3
BG2104 Electronics for Biomedical Eng	3
BG2801 Lab 2A	1
HW0210 Technical Communication	2
AB1102 Accounting II	4
BG1131 Molecular Cell Biology for Biomedical Engineers	4
24	

Year 2 Semester 2

Course	AU
BG2109 Biomechanics	3
BG2111 Computational Methods	4
BG2142 Biological Thermodynamics	3
BG2110 Bioelectricity	3
BG2802 Bioengineering Lab 2B	1
AB0901 Principles of Economics: A Singapore Perspective	3
17	

Year 3 Semester 1

Course	AU
BG3102 Control in Biosystems	3
BG3103 Signal Processing in Biosystems	3
BG3104 Biomedical Imaging	3
BG3105 Biomedical Instrumentation	3
BG3801 Bioengineering Lab 3	1
AB1301 Business Law	3
16	

Year 3 Semester 2

Course	AU
BIE PE 1	3
BIE PE 2	3
AB1601 Organisational Behaviour and Design	3
GER elective 1	3
Year 3 Special Semester	
BG3720 Industrial Orientation	4
16	

Year 4 Semester 1

Course	AU
BG4101 Biomedical Project Design & Management	4
BG4801 Final Year Project	4
BG4903 Environmental Sustainability	3
HW0310 Professional Communication	2
Track Course 1	4
Track Course 2	4
21	

Year 4 Semester 2

Course	AU
BG4801 Final Year Project	4
BG4102 Medical Device Design	3
BG4911 Engineers & Society	3
BIE PE 3	3
Track Course 3	4
17	

Total (AU)

153

154*