

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 |

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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 |

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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 |

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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 |

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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 |
| Track Course 1 | 4 |
| AB1301 Business Law | 3 |

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Year 3 Semester 2

| Course | AU |
|--------------------------------------------|----|
| Track Course 2 | 4 |
| AB1601 Organisational Behaviour and Design | 3 |
| GER elective 1 | 3 |

Year 3 Special Semester

| | |
|-------------------------------|---|
| BG3720 Industrial Orientation | 4 |
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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 |
| BIE PE 1 | 3 |
| BIE PE 2 | 3 |

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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 |

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Total (AU)

153

154*