

**B.Eng. (Bioengineering)
Suggested Study Plan**

Year 1 Semester 1

Course	AU
BG1103 Chemistry	3
BG1106 Math A	3
BG1131 Biomolecular Engineering I	3
BG1801 Lab 1A	1
BG1004 Math 1	3
FE1011 Physics	3
HW0110 Effective Communications	2
GER elective	3
HW001 English Proficiency*	
21	

Semester 2

Course	AU
BG1102 Engineering Physics	3
BG1105 Materials Science	3
BG1107 Math B	3
BG1108 Organic Chemistry	3
BG1109 Anatomy & Physiology	3
BG1802 Lab 1B	1
GER elective 2	3
19	

* For students who have not passed or been exempted from the Qualifying English Test at the time of admission.

Year 2 Semester1

Course	AU
BG2104 Electronics for Biomedical Eng	3
BG2105 Biomolecular Engineering II	3
BG2112 Bio-fluid Systems	4
BG2131 Biomaterials	3
BG2141 Mechanics of Materials	3
BG2801 Lab 2A	1
HW0210 Technical Communication	2
GER elective 3	3
22	

Semester 2

Course	AU
BG2109 Biomechanics	3
BG2110 Bioelectricity	3
BG2111 Computational Methods	3
BG2142 Biological Thermodynamics	3
BG2802 Lab 2B	1
Free elective 1	3
GER elective 4	3
19	

Year 3 Semester 1

Course	AU
BG3102 Control in Biosystems	3
BG3103 Signal Processing	3
BG3104 Biomedical Imaging	3
BG3105 Biomedical Instrumentation	3
BG3106 Advanced Biocomputational Methods	3
BG3801 Lab 3	1
Free elective 2	3
19	

Semester 2

Course	AU
BG3820 Industrial Attachment	8
8	

Year 4 Semester1

Course	AU
BG4103 Biomedical Project Design & Management	3
BG4801 Final Year Project	4
BG4903 Environmental Sustainability	3
HW0310 Professional Communication	2
BIE elective 1	3
Free elective 3	3
18	

Semester 2

Course	AU
BG4801 Final Year Project	4
BG4901 Engineers & Society	3
GER elective 5	3
Free elective 4	2
12	

Total (AU)

138