

**B.Eng. (Chemical & Biomolecular Engineering)
Suggested Study Plan**

Year 1 Semester 1

Course	AU
CH1104 Mass & Energy Balance	3
CH1105 Materials Science	3
CH1106 Math A	3
CH1120 Physical Chemistry	2
CH1131 Biomolecular Engineering I	3
CH1801 Lab	1
CH1101 Math 1	3
GER elective 1	3
HW001 English Proficiency*	
21	

Semester 2

Course	AU
CH1107 Math B	3
CH1111 Intro to Programming	1
CH2102 Organic Chemistry	4
CH2108 Thermodynamics	3
CH1802 Lab	1
HW0110 Effective Communication	2
GER elective 2	3
Free elective 1	3
20	

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

Year 2 Semester1

Course	AU
CH2103 Fluid Systems	4
CH2105 Biomolecular Engineering II	3
CH2107 Computational Methods	3
CH3103 Chemical Thermodynamics	3
CH2801 Lab	2
GER elective 3	3
Free elective 2	3
21	

Semester 2

Course	AU
CH2104 Heat & Mass Transfer	4
CH2140 Principles of Separation Processes	4
CH3102 Reaction Engineering	4
CH2802 Lab	2
HW0210 Technical Communication	2
Free elective 3	3
19	

Year 3 Semester 1

Course	AU
CH3101 Control	4
CH3004 Biochemical Engineering	4
CH3141 Particle Technology & Separation Processes	3
CH3802 Lab	3
CH4901 Engineers & Society	3
HW0310 Professional Communication	2
GER elective 4	3
22	

Semester 2

Course	AU
CH3820 Industrial Attachment	8
8	

Year 4 Semester1

Course	AU
CH4101 Safety	2
CH4801 Final Year Design Project	4
CBE elective 1	3
CBE elective 2	3
Free elective 4	2
14	

Semester 2

Course	AU
CH4801 Final Year Design Project	4
CH4903 Environmental Sustainability	3
CBE elective 3	3
GER elective 5	3
13	

Total (AU)

138