

B.Eng. (Chemical & Biomolecular Engineering)
Suggested Study Plan for AY2013/2014 intake
with Industrial Attachment

Year 1 Semester 1

| Course | AU |
|--|----|
| CH1102 Introduction to Chemical Engineering in New E | 1 |
| CH1104 Mass & Energy Balance | 4 |
| CH1105 Materials Science | 3 |
| CH1131 Biomolecular Engineering | 4 |
| CH1801 Lab | 1 |
| MH1810 Math 1 | 3 |
| GER elective 1 | 3 |
| HW001 English Proficiency* | |
| 19 | |

Year 2 Semester 2

| Course | AU |
|--------------------------------|----|
| CH1117 Engineering Mathematics | 4 |
| CH2102 Organic Chemistry | 4 |
| CH1108 Thermodynamics | 4 |
| CH1802 Lab | 1 |
| HW0110 Effective Communication | 2 |
| GER elective 2 | 3 |
| Free elective 1 | 3 |
| 21 | |

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

Year 2 Semester 1

| Course | AU |
|--|----|
| CH2103 Fluid Systems | 4 |
| CH2106 Introduction to Multidisciplinary Engineering | 2 |
| CH2107 Computational Methods | 3 |
| CH3103 Chemical Thermodynamics | 3 |
| CH2801 Lab | 2 |
| GER elective 3 | 3 |
| Free elective 2 | 3 |
| 20 | |

Year 2 Semester 2

| Course | AU |
|--|----|
| CH2104 Heat & Mass Transfer | 4 |
| CH2140 Unit Operation | 4 |
| CH3102 Chemical Reaction Engineering | 4 |
| CH2802 Lab | 2 |
| CH2109 Decision Tools for Business & Engineering | 3 |
| HW0210 Technical Communication | 2 |
| Free elective 3 | 3 |
| 22 | |

Year 3 Semester 1

| Course | AU |
|--|----|
| CH3101 Process Control and Dynamics | 4 |
| CH3141 Advanced Unit Operations | 3 |
| CH3802 Lab | 3 |
| CH4101 Chemical, Biological & Plant Safety | 2 |
| CH4911 Engineers & Society | 3 |
| HW0310 Professional Communication | 2 |
| GER elective 4 | 3 |
| 20 | |

Year 3 Semester 2*

| Course | AU |
|------------------------------|----|
| CH3820 Industrial Attachment | 8 |
| 8 | |

Year 4 Semester 1*

| Course | AU |
|----------------------------------|----|
| CH3104 Biochemical Engineering | 3 |
| CH4801 Final Year Design Project | 4 |
| CBE elective 1 | 3 |
| CBE elective 2 | 3 |
| Free elective 4 | 2 |
| 15 | |

Year 4 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

* Year 3 Sem 2 and Year 4 Sem 1 may be swapped depending on your IA allocation