

B.Eng. (Chemical & Biomolecular Engineering)

Suggested Study Plan for AY2020-2021 intake (CNYang)

with Professional Internship**Year 1 Semester 1**

| Course | | Type | AU |
|--------|--|------|----|
| CB1102 | Introduction to Chemical and Biomedical Engineering | C | 1 |
| CB2106 | Introduction to Multidisciplinary Engineering | C | 2 |
| CB1131 | Engineering Fundamentals 1 Biomolecular Engineering | C | 3 |
| CY1101 | Principles of Modern Chemistry | C | 3 |
| CY1001 | Introductory Biology | C | 3 |
| CY1601 | Mathematics 1 | C | 4 |
| CY1500 | Introductory Research Methodology | C | 3 |
| CY1308 | Physics | C | 3 |
| GC0001 | Sustainability: Seeing Thru The Haze | GC | 1 |
| HW0001 | Introduction to Academic Communication* | | |

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

Year 2 Semester 1

| Course | | Type | AU |
|--------|--|------|----|
| CH2107 | Introduction to Computational Thinking | C | 3 |
| CH2103 | Fluid Systems | C | 4 |
| CH2010 | Engineering Statistics | C | 3 |
| CH1108 | Thermodynamics | C | 3 |
| CY0002 | Ethics | GC | 3 |
| CY2001 | Research Attachment 1 | C | 4 |
| ML0003 | Kickstart your Career Success | GC | 1 |

21**Year 3 Semester 1**

| Course | | Type | AU |
|--------|---|------|----|
| CH2140 | Unit Operations B | C | 3 |
| CH3111 | Process Control and Dynamics | C | 3 |
| CH2109 | Decision Tools for Business & Engineering | C | 3 |
| CH4101 | Chemical, Biological & Plant Safety | C | 2 |
| CH3802 | Chemical & Biomolecular Engineering Laboratory 5 | C | 3 |
| CY0006 | Enterprise, Innovation and Leadership | GC | 3 |

17**Year 4 Semester 1**

| Course | | Type | AU |
|--------|---------------------------|------|----|
| CH4801 | Final Year Design Project | C | 4 |
| | Free elective 1 | UE | 3 |

7**Year 1 Semester 2**

| Course | | Type | AU |
|--------|---|------|----|
| CH1104 | Materials & Energy Balance | C | 3 |
| CB2102 | Organic Chemistry For Engineers | C | 3 |
| EG0001 | Engineers & Society | GC | 3 |
| CY1007 | Climate Change | C | 3 |
| CY1307 | Relativity and Quantum Physics | C | 3 |
| CY1400 | CN Yang Scholars Programme Research Experience | C | 3 |
| CY1602 | Mathematics II | C | 4 |
| | Engineering Fundamentals 2 + | C | 3 |

Year 1 Special Term

| | | | |
|--------|---|--|---|
| CY2003 | Research Attachment 3 (Making and Tinkering) Overseas Learning Trip | | 4 |
|--------|---|--|---|

29**Year 2 Semester 2**

| Course | | Type | AU |
|--------|--|------|----|
| CH2104 | Heat & Mass Transfer in Chemical and Biological Systems | C | 4 |
| CH3102 | Chemical Reaction Engineering | C | 4 |
| CH3103 | Chemical Thermodynamics | C | 3 |
| CH3141 | Unit Operations A | C | 3 |
| CH3104 | Biochemical Engineering | C | 3 |
| CY0001 | Writing Across The Disciplines | GC | 3 |
| CH2802 | Chemical & Biomolecular Engineering Laboratory 2B | C | 2 |
| CB0494 | Introduction to Data Science and Artificial Intelligence | GC | 3 |

25**Year 3 Semester 2**

| Course | | Type | AU |
|--------|-----------------------------------|------|----|
| CH4211 | CNYSO Overseas Final Year Project | C | 8 |

Year 3 Special Term

| | | | |
|--------|-------------------------|---|---|
| CH3885 | Professional Attachment | C | 5 |
|--------|-------------------------|---|---|

13**Year 4 Semester 2**

| Course | | Type | AU |
|--------|---------------------------|------|----|
| CH4801 | Final Year Design Project | C | 4 |
| | CBE PE 1 | P | 3 |

7**Total (AU)****142**

+ students can choose from list of EF courses