

B.Eng (Hons) in Chemical and Biomolecular Engineering with 2nd Major in Business (Mainstream) with PI
 AY2020 - 2021 Intake onwards

Programme	Year of Study	Number of Academic Units (AUs)								Total
		Major Requirements		General Education Requirement (GER)					UE	
		Core	Major PE	GER Core	GER Prescribed Electives			Any Category (BM, LA, STS)		
					BM	LA	STS			
Chemical & Biomolecular Engineering with Second Major in Business (PI [®])	1	27/28 [^]		8					14	49/50 [^]
	2	34		4					6	44
	3	24		2						26
	4	8	9						12	29
	Total	93/94[^]	9	14	0				32	148/149[^]

Category	Academic Units (AUs)	Total Aus
General Education Requirement Core (GER-Core)		
HW0188 Effective Communication	2	14
HW0288 Engineering Communication	2	
ET0001 Enterprise and Innovation	1	
GC0001 Sustainability: Seeing through the haze	1	
HY0001 Ethics and Moral Reasoning	1	
ML0003 Kickstart your career	1	
CH0494 Introduction to Data Science and Artificial Intelligence	3	
EG0001 Engineers and Society	3	
General Education Requirement Elective (GER-Elective)		
GER-Elective in Business Management (BM)		0
GER- Elective in Liberal Arts (LA)		
GER-Elective in Science, Technology & Society (STS)		
Major Requirement	CBE Cores Major Prescribed Electives (Major PE)	93/94 [^] 9
2nd Major in Business (UEs)	Foundation Business Courses Advanced Business Courses (choose 3)	20 12
Unrestricted Electives		0
Total		148/149[^]

[^]For students without 'A' level physics

B.Eng. (Chemical & Biomolecular Engineering) with 2nd Major in Business (Mainstream)

Suggested Study Plan for AY2020-2021 intake (BM)

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 Introduction to Biomolecular Engineering	C	3
CH1801	Chemical & Biomolecular Engineering Laboratory 1A	C	1
MH1810	Math 1	C	3
GC0001	Sustainability: Seeing Thru The Haze	GC	1
HW0001	Introduction to Academic Communication*		
AD1101	Financial Accounting	UE	4
AB1201	Financial Management	UE	3
HY0001	Ethics & Moral Reasoning	GC	1
ET0001	Entrepreneurship & Innovation	GC	1
PH1011	Physics	C	3
PH1012	or Physics A (^ For students without 'A' Level Physics)		4
			23
			24 [^]

*For students who have not passed or been exempted from the Qualifying English Test (QET) 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
CH2801	Chemical & Biomolecular Engineering Laboratory 2A	C	2
AB1301	Business Law	UE	3
ML0003	Kickstart your Career Success	GC	1
			19

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
HW0288	Engineering Communication	GC	2
			16

Year 4 Semester 1

Course		Type	AU
CH4801	Final Year Design Project	C	4
	CBE PE 1	P	3
	CBE PE 2	P	3
	Advanced Business Courses 1	UE	4
	Advanced Business Courses 2	UE	4
			18

Year 1 Semester 2

Course		Type	AU
CB1117	Engineering Mathematics	C	4
CH1104	Materials & Energy Balance	C	3
CB2102	Organic Chemistry For Engineers	C	3
CH1802	Chemical & Biomolecular Engineering Laboratory 2	C	1
HW0188	Effective Communication	GC	2
BE1401	Engineering Fundamentals 2 + Business Operations and Processes	C	3
		UE	4
AB1501	Marketing	UE	3
EG0001	Engineers & Society	GC	3
			26

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
CH2802	Chemical & Biomolecular Engineering Laboratory 2B	C	2
CB0494	Introduction to Data Science and Artificial Intelligence	GC	3
AB1601	Organisational Behavior and Design	UE	3
			25

Year 3 Semester 2

Course		Type	AU
CH3880	Professional Internship	C	10
			10

Year 4 Semester 2

Course		Type	AU
CH4801	Final Year Design Project	C	4
	CBE PE 3	P	3
	Advanced Business Courses 3	UE	4
			11

Total (AU) 148

149[^]

+ students can choose from list of EF courses