## Double Degree in Engineering and Economics B.Eng (Hons) in Chemical & Biomolecular Engineering and BSocSci (Hons) in Economics

AY2025 - 2026 Intake onwards with Professional Internship (CBEC)

			N	umber o	f Academic	Units (AU	s)	
_	Year of	Maj	or	Ir	nterdiscipli	Broadenin		
Programme	Study	Requirement		Со	llaborative	g and		
	•	Core (C)	Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve, Learn (CSL)	Deepenin g Electives	Total
Double Dogree	1	36		6				42
Double Degree in Chemical &	2	31	3	8	3		•	45
Biomolecular	3	20			13		•	33
	4	14	22			3	-	39
Engineering and Economics	5		14				2	16
and Economics		101	39	14	16	3	2	175
		102*	•				•	176*
		Indivi	dual Degi	ree Requ	irements			
	1	24		6				
Chemical &	2	28		8	3			
Biomolecular	3	17			13			
	4	8	6			3		
Engineering	5							
	Total	77	6	14	16	3	20	136
		78*						137*
	1	12		6				
	2	3	3	8	3			
Economics	3	3			13			
ECOHOMICS	4	14	16			3		
	5		14					
	Total	32	33	14	16	3	27	125

B.Eng (Hons) in Chemical & Biomolecular Engineering and BSocSci (Hons) in

Category	56.111	ical & Biomolecular Engineering and BSocSo	AU	Total
	Common	Core (CC)	_	AU
	Common	Inquiry and Communication in the		
	CC0001	Interdisciplinary World	2	
	CC0001	Ethics & Civics in a Multi-Cultural World	2	
			3	
	CC0006	Sustainability: Society, Economy & Environment		14
	CC0007 CC0015	Science & Technology for Humanity	3 2	
	CC0013	Health & Wellbeing Career Design & Workplace Readiness in the	2	
	ML0004	V.U.C.A World	2	
Interdisciplinar				
y Collaborative				
Core (ICC)	Professio	nal Series (PS)		
		Introduction to Data Science and Artificial	3	
	CB0494	Intelligence		
	HW0288	5 5	2	16
l	MLXXXX	•	1	
	CH3920	Professional Internship	10	
	C C	***   *** (001)		
	Care, Serv	vice, Learn (CSL)	2	3
		Service Learning	3	3
	CDE Comm	(0)		
	CBE Core		,	
	EG1001	Engineers In Society  Math 1	2	
	MH1810		3	
	PH1011*	•	3	
	CB1102	Introduction to Chemical and Biomedical Engineering	1	
	CB1103	Organic Chemistry For Engineers	3	
	CB1117	Engineering Mathematics	4	
Major Requirement	CB1131	Introduction to Biomolecular Engineering	3	33
	CH1104	Materials & Energy Balance	3	
	CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1	
	CH1802	Chemical & Biomolecular Engineering Laboratory 2	1	
	CH2010	Engineering Statistics	3	
	CH2103	Fluid Systems	3	
	CH2107	Introduction to Computational Thinking	3	

Total				175
Takal				475
Broadening and	d Deepenin	g Electives (BDE)		2
	ı		l	
	Econs Lev	rel 4xxx (3 courses)	12	
	1	rel 3xxx (6 courses)	18	
	MH1820	Statistical Methods	3	39
	1	Introduction to Probability and		
		escribe Electives (MPE) r Prescribed Electives (2 courses)	6	
	Maior Bra	ossviha Elastivas (MDE)		
	HE3003	Econometrics II	3	
l	HE3002	Macroeconomics III	3	
	HE3001	Microeconomics III	3	
	HE2002	Macroeconomics II Econometrics I	3	24
	HE2001 HE2002	Microeconomics II	3	
	HE1002	Macroeconomics I	3	
	HE1001	Microeconomics I	3	
	Econs Cor	re (C)		
	CH4801	Final Year Design Project	8	
Major Requirement	CH3802	Chemical & Biomolecular Engineering Laboratory 5	3	
	CH3140	Unit Operations: Fluid-Fluid Chamical & Riomalagular Engineering	3	
	CH3121	Chemical, Biological & Plant Safety	2	
	CH3111	Process Control and Dynamics	3	
	CH3109	Engineering	3	
		Decision Tools for Business &		
	CH3104	Laboratory 2B Biochemical Engineering	3	44
	CH2802	Chemical & Biomolecular Engineering	2	
	CH2801	Chemical & Biomolecular Engineering Laboratory 2A	2	
	CH2151	Unit Operations: Fluid-Solid	3	
	CH2123	Chemical Thermodynamics	3	
	CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	
	CH2112	Chemical Reaction Engineering	3	
	CH2108	Thermodynamics	3	

	2026 Intake onwards ional Internship (CBEC)	iocSci (H	,					
Year 1 Sei Course	mester 1	Type	AU		Year 1 Sem	nester 2	Туре	AU
CB1102	Introduction to Chemical and Biomedical	С	1	_	CB1103	Organic Chemistry For Engineers	С	3
CB1131	Engineering	С						
	Introduction to Biomolecular Engineering Chemical & Biomolecular Engineering Laboratory		3		CB1117	Engineering Mathematics	С	4
CH1801	1A	С	1		CH1104	Materials & Energy Balance	С	3
MH1810	Math 1	С	3		CH1802	Chemical & Biomolecular Engineering Laboratory 2	С	1
PH1011	Physics	С	3		EG1001	Engineers in Society	С	2
	<u>or</u>				CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
PH1012	Physics A (* For students without 'A' Level Physics)		4		CC0015	Health & Wellbeing	CC	2
CC0001	Inquiry and Communication in the Interdisciplinary	СС	2		HE2001	Microeconomics II	С	3
HE1001	World Microeconomic I	С	3		HE2002	Macroeconomics II	С	3
HE1002	Macroeconomic I	Ċ	3		1122002	madicessine in		Ū
			19	- <sub>20</sub>				23
Year 2 Sei	mester 1				Year 2 Sem	nester 2		
Course		Type	AU	_	Course		Туре	AU
CH2103	Fluid Systems	С	3		CH2112	Chemical Reaction Engineering	С	3
CH2107	Introduction to Computational Thinking	С	3		CH2114	Heat & Mass Transfer in Chemical and Biological Systems	С	3
CH2108	Thermodynamics	С	3		CH2123	Chemical Thermodynamics	С	3
CH2010	Engineering Statistics	С	3		CH2151	Unit Operations: Fluid-Solid Seperation	С	3
CH2801	Chemical & Biomolecular Engineering Laboratory 2A	С	2		CH2802	Chemical & Biomolecular Engineering Laboratory 2B	С	2
ML0004	Career Design & Workplace Readiness in the	СС	2		CC0007	Science & Technology for Humanity	CC	3
	V.U.C.A World					Introduction to Data Science and Artificial		
CC0006	Sustainability: Society, Economy & Environment	CC	3		CB0494	Intelligence	PS	3
HE3001	Microeconomics III	С	3		MH1820	Introduction to Probability and Statistical Methods	MPE	3
Year 3 Sei Course	mester 1							
		Tyne	ΔΠ		Year 3 Sem	nester 2	Type	ΔΠ
CH3104	Biochemical Engineering	<b>Type</b>	<b>AU</b> 3	_	Year 3 Sem Course CH3920	Professional Internship	<b>Type</b> PS	<b>AU</b> 10
CH3109	Decision Tools for Business & Engineering	C C	3 3	_	Course			
CH3109 CH3111	Decision Tools for Business & Engineering Process Control and Dynamics	C C C	3 3 3	_	Course			
CH3109 CH3111 CH3121	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety	C C	3 3	-	Course			
CH3104 CH3109 CH3111 CH3121 CH3140 CH3802	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation	0000	3 3 3 2 3	_	Course			
CH3109 CH3111 CH3121 CH3140 CH3802	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5	00000	3 3 3 2 3 3	_	Course			
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication	C C C C C	3 3 3 2 3 3	_	Course			
CH3109 CH3111 CH3121 CH3140 CH3802	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5	00000	3 3 3 2 3 3	-	Course			
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation	C C C C C PS PS	3 3 3 2 3 3 2	_	Course			
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002 Year 4 Sei	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III	C C C C C PS PS C	3 3 2 3 3 2 1 3	_	Course CH3920	Professional Internship	PS	10
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III	C C C C C PS PS C	3 3 3 2 3 3 2 1 3 2 2 1	_	Course CH3920  Year 4 Sem Course	Professional Internship	PS	10 AU
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III	C C C C C PS PS C	3 3 2 3 3 2 1 3	_	Course CH3920	Professional Internship	PS	10
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1	C C C C C PS PS C C	3 3 3 2 3 3 2 1 3 22 1 3 24 3 4 3	_	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project CBE PE 2	Type C MPE	10 AU 4 3
CH3109 CH3111 CH3121 CH3121 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning	C C C C C C PS PS C C	3 3 3 2 3 3 2 1 3 <b>23</b>	-	Course CH3920  Year 4 Sem Course	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II	Type C MPE C	10 AU 4 3 3
CH3109 CH3111 CH3121 CH3121 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I	C C C C C C C C C C C C C C C C C C C	3 3 3 2 3 3 2 1 3 2 3 3 2 4 4 3 3 3 3	-	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project  CBE PE 2  Econometrics II Econ PE3XXX 4	Type C MPE C MPE	10 AU 4 3 3 3
CH3109 CH3111 CH3121 CH3121 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning	C C C C C C PS PS C C	3 3 3 2 3 3 2 1 3 <b>23</b>	-	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II	Type C MPE C	10 AU 4 3 3
CH3109 CH3111 CH3121 CH3121 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1	C C C C C PS PS C C Type C C MPE CSL C MPE	3 3 3 2 3 3 2 1 3 23 AU 4 3 3 3 3	-	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project  CBE PE 2  Econometrics II Econ PE3XXX 4	Type C MPE C MPE	10 AU 4 3 3 3
CH3109 CH3111 CH3121 CH3121 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2	C C C C C C C C C C C C C C C C C C C	3 3 3 2 3 3 2 1 3 23 <b>AU</b> 4 3 3 3 3 3 3 3	-	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project  CBE PE 2  Econometrics II Econ PE3XXX 4	Type C MPE C MPE	10 AU 4 3 3 3
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C C C C C C C C C C C C C C	3 3 3 2 3 3 2 1 3 23 23 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	_	Course CH3920  Year 4 Serr Course CH4801	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE	10 AU 4 3 3 3 4
CH3109 CH3111 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C PS PS C C MPE MPE MPE MPE	3 3 3 2 3 3 2 1 3 23 AU 4 3 3 3 3 3 3 2 2 1 2 2 3 2 2 3 2 2 3 3 3 3	_	Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE	10 AU 4 3 3 3 4
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C PS PS C C MPE CSL C MPE MPE MPE MPE MPE BDE	3 3 3 2 1 3 23 AU 4 3 3 3 3 3 3 3 22 AU 22	_	Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C C C C C C C C C C C C C C	3 3 3 2 3 3 2 1 3 23 23 4 4 3 3 3 3 3 2 2 4 4 3 3 2 2 4 2 2 2 2	-	Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C PS PS C C MPE CSL C MPE MPE MPE MPE MPE BDE	3 3 3 2 1 3 23 AU 4 3 3 3 3 3 3 3 22 AU 22	-	Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C C C C C C C C C C C C C C	3 3 3 2 2 1 3 2 2 3 3 3 3 3 3 3 3 3 3 3		Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801 HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C C C C C C C C C C C C C C	3 3 3 2 2 1 3 2 2 3 3 3 3 3 3 3 3 3 3 3		Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17 AU
CH3109 CH3111 CH3121 CH3121 CH3140 CH3802 HW0288 MLXXXX HE3002  Year 4 Sei Course CH4801  HE2003	Decision Tools for Business & Engineering Process Control and Dynamics Chemical, Biological & Plant Safety Unit Operations: Fluid-Fluid Separation Chemical & Biomolecular Engineering Laboratory 5 Engineering Communication Professional Preparation Macroeconomics III  Final Year Design Project CBE PE 1 Service Learning Econometrics I Econ PE3XXX 1 Econ PE3XXX 2 Econ PE3XXX 3	C C C C C C C C C C C C C C C C C C C	3 3 3 2 1 3 2 3 3 3 3 3 3 3 3 3 3 3 3 4 4		Year 4 Sem Course CH4801 HE3003	Professional Internship  nester 2  Final Year Design Project CBE PE 2 Econometrics II Econ PE3XXX 4 Econ PE4XXX 1	Type C MPE C MPE MPE	10 AU 4 3 3 3 4 17

<sup>\*</sup>Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

List of Courses tha	t Contribut	tes to BEng (C	hemical and Biomolecular Engineering)		AU Load
Discipline	Core	EG1001	Engineers In Society	2	77AU
Requirement		MH1810	Math 1	3	
		PH1011*	Physics	3	
		CB1102	Introduction to Chemical and Biomedical Engineering	1	
		CB1103	Organic Chemistry For Engineers	3	
		CB1117	Engineering Mathematics	4	
		CB1131	Introduction to Biomolecular Engineering	3	
		CH1104	Materials & Energy Balance	3	
		CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1	
		CH1802	Chemical & Biomolecular Engineering Laboratory 2	1	
		CH2010	Engineering Statistics	3	
		CH2103	Fluid Systems	3	
		CH2107	Introduction to Computational Thinking	3	
		CH2108	Thermodynamics	3	
		CH2112	Chemical Reaction Engineering	3	
		CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	
		CH2123	Chemical Thermodynamics	3	
		CH2151	Unit Operations A	3	
		CH2801	Chemical & Biomolecular Engineering Laboratory 2A	2	
		CH2802	Chemical & Biomolecular Engineering Laboratory 2B	2	
		CH3104	Biochemical Engineering	3	
		CH3109	Decision Tools for Business & Engineering	3	
		CH3111	Process Control and Dynamics	3	
		CH3121	Chemical, Biological & Plant Safety	2	
		CH3140	Unit Operations B	3	
		CH3802	Chemical & Biomolecular Engineering Laboratory 5	3	
		CH4801	Final Year Design Project	8	
	BDE	HE1001	Microeconomics I	3	<b>20AU</b> 15AU from
		HE1002	Macroeconomics I	3	compulsory
		HE2001	Microeconomics II	3	Economics Core courses. 3AU
		HE2002	Macroeconomics II	3	from Year 3 and 4 Economics PE
		HE2003	Econometrics I	3	that yield the highest CGPA.
		HEXXXX	Economics PE	3	+ 5AU (PA only)
			BDE 1	2	
	Major PE		BIE PE 1	3	6AU
		BGXXXX	BIE PE 2	3	

Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	14AU
Core		CC0003	Ethics & Civics in a Multi-Cultural World	2	
		CC0004	Career Design & Workplace Readiness in the V.U.C.A World	2	
		CC0015	Health & Wellbeing	2	
		CC0006	Sustainability: Society, Economy & Environment	3	
		CC0007	Science & Technology for Humanity	3	
	Professio		Introduction to Data Science and	3	16AU or
	nal Series	CB0494	Artificial Intelligence	3	11AU (for PA
		HW0288	Engineering Communication	2	only)
			Professional Preparation	1	
		CH3920/	Professional Internship/ Professional	10/5	
		CH3910	Attachment	10/3	
	Care,				3AU
	Service &		Service Learning	3	
	Learn				
			TOTAL		136 AU

<sup>\*</sup>Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

List of courses tha	ocSci (Econs)	AU	AU Load		
Discipline	Core	HE1001	Microeconomics I	3	32AU
Requirement		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HE3001	Microeconomics III	3	
		HE3002	Macroeconomics III	3	
		HE3003	Econometrics II	3	
		BG4801	Final Year Project	8	
	MPE	MH1820	Introduction to Probability and Statistical Methods	3	33AU
		HE3XXX	Econs PE1	3	
		HE3XXX	Econs PE2	3	
		HE3XXX	Econs PE3	3	
		HE3XXX	Econs PE4	3	
		HE3XXX	Econs PE5	3	
		HE3XXX	Econs PE6	3	
		HE4XXX	Econs PE7	4	
		HE4XXX	Econs PE8	4	
		HE4XXX	Econs PE9	4	

1	BDE	EG1001	Engineers In Society	2	<b>9AU</b> from Year
		MH1810	Math 1	3	1 Engineering
		PH1011*	Physics	3	graded Core
		CB1102	Introduction to Chemical and Biomedical Engineering	1	courses that yield the
		CB1103	Organic Chemistry For Engineers	3	highest CGPA.
		CB1117	Engineering Mathematics	4	
		CB1131	Introduction to Biomolecular Engineering	3	
		CH1104	Materials & Energy Balance	3	
		CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1	
		CH1802	Chemical & Biomolecular Engineering Laboratory 2	1	
	BDE	CH2010	Engineering Statistics	3	<b>18AU</b> from
		CH2103	Fluid Systems	3	Year 2 and 3
		CH2107	Introduction to Computational Thinking	3	Engineering graded
		CH2108	Thermodynamics	3	courses that
		CH2112	Chemical Reaction Engineering	3	yield the
		CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	highest CGPA +
		CH2123	Chemical Thermodynamics	3	5AU (PA
		CH2151	Unit Operations: Fluid-Solid Seperation	3	only)
		CH2801	Chemical & Biomolecular Engineering Laboratory 2A	2	
		CH2802	Chemical & Biomolecular Engineering Laboratory 2B	2	
		СН3104	Biochemical Engineering	3	
		CH3109	Decision Tools for Business & Engineering	3	
		CH3111	Process Control and Dynamics	3	
		CH3121	Chemical, Biological & Plant Safety	2	
		CH3140	Unit Operations: Fluid-Fluid Separation	3	
		CH3802	Chemical & Biomolecular Engineering Laboratory 5	3	
Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	14AU
Core		CC0003	Ethics & Civics in a Multi-Cultural World	2	
		CC0006	Sustainability: Society, Economy & Environment	3	
		CC0007	Science & Technology for Humanity	3	
		CC0015	Health & Wellbeing	2	
		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2	

Profession		Introduction to Data Science and	3	16AU or
nal Series	CB0494	Artificial Intelligence		11AU (for PA
	HW0288	Engineering Communication	2	only)
	MLXXXX	Professional Preparation	1	
	CH3920/	Professional Internship/ Professional	10/5	
	CH3910	Attachment	10/3	
Care,				3AU
Service,		Camilas Lagurina	3	
Learn		Service Learning	3	
(CSL)				
·	•	TOTAL		125AU

<sup>\*</sup>Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).