EEEN4060/EST	: TR1004 nce Course: hematics Co TR2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	ourse: EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	STR2404, MAEG20	EEEN2602, 030/ESTR2402,	Units 3 3 3 24 6 15
 ENGG1410/EST ENGG1410/EST Foundation Scier CHEM1380 Foundation Math ENGG2420/EST Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 Research Compo EEEN4998, 4999 Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI Non-core Elective ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	TR 1004 nce Course: hematics Co TR 2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN 301 R4402, ESS ves[c]: CHEM 42 TR 2102,	ourse: EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	3 3 24 6
 Foundation Scier CHEM1380 Foundation Math ENGG2420/EST Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 Research Compo EEEN4998, 4999 Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/EST) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/EST) 	nce Course: hematics Co TR2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	ourse: EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	3 24 6
CHEM1380 3. Foundation Math ENGG2420/EST 4. Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/EST (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/EST	hematics Co (R2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN301 (R4402, ESS ves[c]: CHEM42 (R2102,	ourse: EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	3 24 6
 Foundation Math ENGG2420/EST Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 Research Compo EEEN4998, 4999 Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/EST) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/EST) 	FR2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 FR2102,	EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	24 6
 ENGG2420/EST 4. Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	FR2000 es: 2030, 07#[a], H 30 onent Course 9 s: at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 FR2102,	EEEN2040/E ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	24 6
 4. Required Course (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Elective ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	es: 2030, 27#[a], H 30 50 51 52 53 53 54 54 54 54 54 54 54 54 54 54	ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	6
 (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	2030, 2030, 17#[a], H 30 50 51 52 53 53 54 54 54 54 54 54 54 54 54 54	ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	6
 (a) EEEN2020, ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	2030, 2030, 17#[a], H 30 50 51 52 53 53 54 54 54 54 54 54 54 54 54 54	ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	6
 ELEG2202#/320 MAEG2601, 303 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	07#[a], H 30 50 9 31 32 33 33 34 34 30 35 34 30 36 30 37 30 30 37 30 37 30 37 30 37 30 37 30 37 30 37 37 37 37 37 37 37 37 37 37 37 37 37	ESSC2800#, es[b]: its): 0/ESTR3410, SC4240#	MAEG20)30/ESTR2402,	
 (b) Research Compo EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	onent Course 9 at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	its): 0/ESTR3410, SC4240#	EEEN30)30/ESTR3402,	
EEEN4998, 4999 5. Elective Courses (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI	9 s: at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	its): 0/ESTR3410, SC4240#	EEEN30)30/ESTR3402,	
 (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	0/ESTR3410, SC4240#	EEEN30)30/ESTR3402,	15
 (a) Core Electives (a ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI 	at least 6 uni EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	0/ESTR3410, SC4240#	EEEN30	030/ESTR3402,	
ARCH3424#, EEEN4020/ESTI (b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/ESTI	EEEN301 R4402, ESS ves[c]: CHEM42 TR2102,	0/ESTR3410, SC4240#	EEEN30	030/ESTR3402,	
(b) Non-core Electiv ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/EST	ves[c]: CHEM42 TR2102,				
ARCH5431#, CSCI2100#/EST ESTR4400, EEEN4060/EST	CHEM42 TR2102,				
CSCI2100#/EST ESTR4400, EEEN4060/ESTI	TR2102,				
ESTR4400, EEEN4060/ESTI	· · ·	280#, CSC	I1020, 1	040, 1050,	
EEEN4060/EST		EEEN3020/E	,	EEEN4010/	
)/ESTR4404,		050/ESTR4422,	
				3800#, 4540#,	
GRMD2404, 3					
MAEG3050/EST	,	,		,	
MAEG4080/EST	I K4420, MF	AEG5120, 514	0, 5150, PH	1 54420#	
Streams		6 4 5	. .		
Students may specializ					
minimum of 12 units of	-				
choose not to specializ stream.	ze in any st	tream or to sp	becialize in	more than one	
Sustainable Energy Te	chnology				
(a) Required Course					
EEEN3030/EST		EN4020/ESTR	4402		
(b) Elective Courses					
CHEM4280,				30/ESTR4404,	
EEEN4050/EST MAEG5120, 515		EFEN4060/F	STR4424	ELEG3601,	

(a)	Required Courses:	
	ARCH3424, EEEN3010/ESTR3410	
(b)	Elective Courses:	
	ARCH5431, EEEN3020/ESTR3400, MAEG3050/ESTR3406,	
	MAEG3920, MAEG4030/ESTR4412, MAEG5150	
Envi	ronmental Engineering	
(a)	Required Courses:	
	ESSC4240, GRMD3203	
(b)	Elective Courses:	
	ARCH5431, ENSC3230, 4240, ESSC2020, GRMD4204,	
	MAEG4080/ESTR4420, MAEG5140	
	Total:	54

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[d]

Elective Courses:

15 units of courses[e]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[f]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[g]

- 1. EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package, Foundation Science course and Foundation Mathematics courses.
- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Associate Degree holders, students will be recommended by the Department to take either ELEG2202 or 3207.
- [b] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.
- [c] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
- [d] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite).
 Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [e] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above to fulfill the elective requirements of the ELITE Stream. Item 4(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [f] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [g] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement

for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Associate Degree holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Major Required: CHEM1380, EEEN2020, ELEG2202/3207, ENGG2420/ESTR2000 Major Elective(s):	12
	2 nd term	
	Faculty Package: ENGG1410/ESTR1004	3
	Major Required: EEEN2040/ESTR2404, MAEG2030/ ESTR2402, MAEG2601, 3030	11
	Major Elective(s):	
	Summer session	
	Major Required: EEEN2602	1
Second Year of	1 st term	
Attendance	Major Required: EEEN4998, ESSC2800	6
	Major Elective(s): 3 courses	9
	2 nd term	
	Major Required: EEEN2030, 4999	6
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	54

Major Programme Requirement (for Higher Diploma holders admitted to senior-year places)

Students are required to complete a minimum of 51 units of courses as follows:

1.	Faculty Package: ENGG1410/ESTR1004	Units 3
2.	Foundation Science Course: CHEM1380	3
3.	Foundation Mathematics Course: ENGG2420/ESTR2000	3
4. (a)	Required Courses: EEEN2020, 2030, EEEN2040/ESTR2404, EEEN2602, ELEG2202#/3207#[a], ESSC2800#, MAEG2030/ESTR2402, MAEG2601, 3030	24
(b)	Research Component Courses[b]: EEEN4998, 4999	6
5. (a)	Elective Courses: Core Electives (at least 6 units): ARCH3424#, EEEN3010/ESTR3410, EEEN3030/ESTR3402,	12
(b)	EEEN4020/ESTR4402, ESSC4240# Non-core Electives[c]:	

ARCH5431#. CHEM4280#. CSCI1020. 1040. 1050. CSCI2100#/ESTR2102. EEEN3020/ESTR3400. EEEN4010/ ESTR4400. EEEN4030/ESTR4404. EEEN4050/ESTR4422. EEEN4060/ESTR4424, ELEG3601#, ENGG1820, ENSC3230#, 4240#, ESSC2020, 3200#, 3220#, 3320#, 3600#, 3800#, 4540#, 3203#. 3403#. 4202#. GRMD2404. 3202#. 4204#. 4401#. MAEG3050/ESTR3406, MAEG3920, MAEG4030/ESTR4412, MAEG4080/ESTR4420, MAEG5120, 5140, 5150, PHYS4420#

Streams

Students may specialize in any of the three streams by completing a minimum of 12 units of courses prescribed by that stream. Students may choose not to specialize in any stream or to specialize in more than one stream.

Sustainable Energy Technology

- (a) Required Courses: EEEN3030/ESTR3402, EEEN4020/ESTR4402
- (b) Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150

Green Building Technology

- (a) Required Courses: ARCH3424, EEEN3010/ESTR3410
- (b) Elective Courses: ARCH5431, EEEN3020/ESTR3400, MAEG3050/ESTR3406, MAEG3920, MAEG4030/ESTR4412, MAEG5150

Environmental Engineering

- (a) Required Courses: ESSC4240, GRMD3203
- (b) Elective Courses: ARCH5431, ENSC3230, 4240, ESSC2020, GRMD4204, MAEG4080/ESTR4420, MAEG5140

Total: 51

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[d]

Elective Courses:

15 units of courses[e]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[f]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[g]

Explanatory Notes:

1. EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package, Foundation Science course and Foundation Mathematics courses.

- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Higher Diploma holders, students will be recommended by the Department to take either ELEG2202 or 3207.
- [b] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.
- [c] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
- [d] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite).
 Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [e] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above to fulfill the elective requirements of the ELITE Stream. Item 4(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [f] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [g] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Higher Diploma holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Major Required: CHEM1380, EEEN2020, ELEG2202/3207, ENGG2420/ESTR2000	12
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1410/ESTR1004	3
	Major Required: EEEN2040/ESTR2404, MAEG2030/	11
	ESTR2402, MAEG2601, 3030	
	Major Elective(s):	
	Summer session	
	Major Required: EEEN2602	1
Second Year of	1 st term	
Attendance	Major Required: EEEN4998, ESSC2800	6
	Major Elective(s): 2 courses	6
	2 nd term	
	Major Required: EEEN2030, 4999	6
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	51

Stude	ents are required to complete a minimum of 54 units of courses as follows:	
		Units
1.	Faculty Package[a]:	3
	ENGG1120/1130/ESTR1005/1006	
2.	Required Courses:	
(a)	EEEN2020, 2030, EEEN2040/ESTR2404, EEEN2602, EEEN3030/	30
	ESTR3402, ELEG2202#/3207#[b], ESSC2800#, MAEG2030/	
	ESTR2402, MAEG2601, 3030, MAEG4030/ESTR4412	
(b)	Research Component Courses[c]:	6
	EEEN4998, 4999	
3.	Elective Courses:	15
(a)	Core Electives (at least 6 units):	
	ARCH3424#, EEEN3010/ESTR3410, EEEN4020/ESTR4402,	
	EEEN4050/ESTR4422, EEEN4060/ESTR4424, ESSC4240#,	
	MAEG3050/ESTR3406, MAEG4080/ESTR4420	
(b)	Non-core Electives[d]:	
	ARCH5431#, CHEM4280#, CSCI1020, 2040#, CSCI2100#/	
	ESTR2102, EEEN3020/ESTR3400, EEEN4010/ESTR4400,	
	EEEN4030/ESTR4404, ELEG3601#, ENGG1820, ENGG2760/	
	ESTR2018, ENGG2780/ESTR2020, ENSC3230#, 4240#, ESSC2020,	
	3200#, 3220#, 3320#, 3600#, 3800#, 4540#, GRMD2404, 3202#, 3203#, 3403#, 4202#, 4204#, 4401#, MAEG1020, 3920, 5120, 5140,	
	5150, PHYS4420#	
~		
Strea		
Stude	ents may specialize in any of the three streams by completing a	
Stude mini	num of 12 units of courses prescribed by that stream. Students may	
Stude minit choo	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one	
Stude minit choo	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one	
Stude minin choo streat Sust a	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology	
Stude minin choo streat Sust a	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses:	
Stude minin choo strea: Sust a (a)	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402	
Stude minin choo strea: Sust a (a)	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses:	
Stude minin choo strea: Sust a (a)	 mum of 12 units of courses prescribed by that stream. Students may see not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, 	
Stude minin choo strea: Sust a (a)	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601,	
Stude minin choo streat Sust (a) (b)	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150	
Stude minin choo streat Susta (a) (b) Gree	 mum of 12 units of courses prescribed by that stream. Students may see not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 m Building Technology 	
Stude minin choo streat Susta (a) (b) Gree	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 an Building Technology Required Courses:	
Stude minin choo streat (a) (b) Gree (a)	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 n Building Technology Required Courses: ARCH3424, EEEN3010/ESTR3410	
Stude minin choo streat Sust (a) (b)	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 m Building Technology Required Courses: ARCH3424, EEEN3010/ESTR3410 Elective Courses:	
Stude minin choo streat (a) (b) Gree (a)	num of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in more than one m. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 n Building Technology Required Courses: ARCH3424, EEEN3010/ESTR3410	

Environmental Engineering

(a) Required Courses: ESSC4240, GRMD3203

 (b) Elective Courses: ARCH5431, ENSC3230, 4240, ESSC2020, GRMD4204, MAEG4080/ESTR4420, MAEG5140

Total: 54

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[e]

Elective Courses:

15 units of courses[f]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[g]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

- 1. EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.
- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Associate Degree holders, students will be recommended by the Department to take either ENGG1120/ESTR1005 or ENGG1130/ESTR1006.
- [b] Based on the admission qualifications of the Associate Degree holders, students will be recommended by the Department to take either ELEG2202 or 3207.
- [c] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.
- [d] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 2040, CSCI2100/ESTR2102.
- [e] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [f] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 2(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [g] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Associate Degree holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Faculty Package:	
	Major Required: EEEN2020, ELEG2202/3207, ESSC2800	9
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1120/1130/ESTR1005/1006	3
	Major Required: EEEN2040/ESTR2404, MAEG2030/	11
	ESTR2402, MAEG2601, 3030	
	Major Elective(s):	
	Summer session	
	Major Required: EEEN2602	1
Second Year of	1 st term	
Attendance	Major Required: EEEN4998, MAEG4030/ESTR4412	6
	Major Elective(s): 3 courses	9
	2 nd term	
	Major Required: EEEN2030, EEEN3030/ESTR3402,	9
	EEEN4999	
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	54

•	Major Programme Requirement (for Higher Diploma holders admitted to senior-year places)				
Stude	Students are required to complete a minimum of 51 units of courses as follows:				
1.	Faculty Package[a]: ENGG1120/1130/ESTR1005/1006	Units 3			
2. (a)	Required Courses: EEEN2020, 2030, EEEN2040/ESTR2404, EEEN2602, EEEN3030/ ESTR3402, ELEG2202#/3207#[b], ESSC2800#, MAEG2030/ ESTR2402 MAEG2601 2020 MAEG4020/ESTR4412	30			
(b)	ESTR2402, MAEG2601, 3030, MAEG4030/ESTR4412 Research Component Courses[c]: EEEN4998, 4999	6			
3. (a)	Elective Courses: Core Electives (at least 6 units): ARCH3424#, EEEN3010/ESTR3410, EEEN4020/ESTR4402, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ESSC4240#, MAEC2050/ESTR2406, MAEC4080/ESTR4420	12			
(b)	MAEG3050/ESTR3406, MAEG4080/ESTR4420 Non-core Electives[d]: ARCH5431#, CHEM4280#, CSCI1020, 2040#, CSCI2100#/ ESTR2102, EEEN3020/ESTR3400, EEEN4010/ESTR4400, EEEN4030/ESTR4404, ELEG3601#, ENGG1820, ENGG2760/ ESTR2018, ENGG2780/ESTR2020, ENSC3230#, 4240#, ESSC2020, 3200#, 3220#, 3320#, 3600#, 3800#, 4540#, GRMD2404, 3202#, 3203#, 3403#, 4202#, 4204#, 4401#, MAEG1020, 3920, 5120, 5140, 5150, PHYS4420#				

	ents may specialize in any of the three streams by completing a
	num of 12 units of courses prescribed by that stream. Students may see not to specialize in any stream or to specialize in more than one
strear	
Susta	inable Energy Technology
(a)	Required Courses:
	EEEN4020/ESTR4402
(b)	Elective Courses:
	CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404,
	EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601,
a	MAEG5120, 5150
	n Building Technology
(a)	Required Courses:
	ARCH3424, EEEN3010/ESTR3410
(b)	Elective Courses:
	ARCH5431, EEEN3020/ESTR3400, MAEG3050/ESTR3406,
	MAEG3920, 5150
Envi	ronmental Engineering
(a)	Required Courses:
	ESSC4240, GRMD3203
(b)	Elective Courses:
	ARCH5431, ENSC3230, 4240, ESSC2020, GRMD4204,
	MAEG4080/ESTR4420, MAEG5140
	Total: 51

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[e]

Elective Courses:

15 units of courses[f]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[g]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

- 1. EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.
- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Higher Diploma holders, students will be recommended by the Department to take either ENGG1120/ESTR1005 or ENGG1130/ESTR1006.
- [b] Based on the admission qualifications of the Higher Diploma holders, students will be recommended by the Department to take either ELEG2202 or 3207.

- [c] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.
- [d] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 2040, CSCI2100/ESTR2102.
- [e] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite).
 Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [f] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 2(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [g] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Higher Diploma holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Faculty Package:	
	Major Required: EEEN2020, ELEG2202/3207, ESSC2800	9
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1120/1130/ESTR1005/1006	3
	Major Required: EEEN2040/ESTR2404, MAEG2030/ESTR2402,	11
	MAEG2601, 3030	
	Major Elective(s):	
	Summer session	
	Major Required: EEEN2602	1
Second Year of	1 st term	
Attendance	Major Required: EEEN4998, MAEG4030/ESTR4412	6
	Major Elective(s): 2 courses	6
	2 nd term	
	Major Required: EEEN2030, EEEN3030/ESTR3402, EEEN4999	9
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	51

	es)	
Stude	ents are required to complete a minimum of 54 units of courses as follows:	
		Units
1.	Faculty Package[a]: ENGG1120/1130/ESTR1005/1006	3
2.	Required Courses:	
(a)	EEEN2020, 2030, EEEN2040/ESTR2404, EEEN2602, EEEN3030/ ESTR3402, ELEG2202#/3207#[b], ESSC2800#, MAEG2030/ ESTR2402, MAEG2601, 3030, MAEG4030/ESTR4412	30
(b)	Research Component Courses[c]:	6
	EEEN4998, 4999	
3.	Elective Courses:	15
(a)	Core Electives (at least 6 units):	
	ARCH3424#, EEEN3010/ESTR3410, EEEN4020/ESTR4402, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ESSC4240#,	
	MAEG3050/ESTR3406, MAEG4080/ESTR4420	
(b)	Non-core Electives[d]:	
	ARCH5431#, CHEM4280#, CSCI1020, 2040#, CSCI2100#/	
	ESTR2102, EEEN3020/ESTR3400, EEEN4010/ESTR4400,	
	EEEN4030/ESTR4404, ELEG3601#, ENGG1820, ENGG2760/ ESTR2018, ENGG2780/ESTR2020, ENSC3230#, 4240#, ESSC2020,	
	3200#, 3220#, 3320#, 3600#, 3800#, 4540#, GRMD2404, 3202#,	
	3203#, 3403#, 4202#, 4204#, 4401#, MAEG1020, 3920, 5120, 5140,	
	5150, PHYS4420#	
Strea		
	ents may specialize in any of the three streams by completing a	
	mum of 12 units of courses prescribed by that stream. Students may	
mini	mum of 12 units of courses prescribed by that stream. Students may se not to specialize in any stream or to specialize in at most two streams.	
mini choo	se not to specialize in any stream or to specialize in at most two streams.	
mini choo Sust	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology	
mini choo	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses:	
mini choo Sust (a)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology	
mini choo Sust (a)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402	
mini choo Sust (a)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601,	
mini choo Sust (a) (b)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404,	
minit choo Sust (a) (b)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150	
minischoo Susta (a) (b) Gree	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 En Building Technology Required Courses:	
minischoo Susta (a) (b) Gree (a)	se not to specialize in any stream or to specialize in at most two streams. ainable Energy Technology Required Courses: EEEN4020/ESTR4402 Elective Courses: CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601, MAEG5120, 5150 m Building Technology Required Courses: ARCH3424, EEEN3010/ESTR3410	

(a) Required Courses:

ESSC4240, GRMD3203

(b) Elective Courses: ARCH5431, ENSC3230, 4240, MAEG4080/ESTR4420, MAEG5140

ESSC2020, GRMD4204,

Total: 54

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[e]

Elective Courses:

15 units of courses[f]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[g]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

- 1. EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.
- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Associate Degree holders, students will be recommended by the Department to take either ENGG1120/ESTR1005 or ENGG1130/ESTR1006.
- [b] Based on the admission qualifications of the Associate Degree holders, students will be recommended by the Department to take either ELEG2202 or 3207.
- [c] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.
- [d] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 2040, CSCI2100/ESTR2102.
- [e] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [f] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 2(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [g] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Associate Degree holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Faculty Package: Major Required: EEEN2020, ELEG2202/3207, ESSC2800 Major Elective(s):	9
	2 nd term Faculty Package: ENGG1120/1130/ESTR1005/1006 Major Required: EEEN2040/ESTR2404, MAEG2030/ ESTR2402, MAEG2601, 3030 Major Elective(s):	3 11
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Summer session Major Required: EEEN2602	1
Second Year of Attendance	1 st term Major Required: EEEN4998, MAEG4030/ESTR4412 Major Elective(s): 3 courses	6 9
	2 nd term Major Required: EEEN2030, EEEN3030/ESTR3402, EEEN4999	9
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	54

Major Programme Requirement (for Higher Diploma holders admitted to senior-year places)

Students are required to complete a minimum of 51 units of courses as follows:		
1.	Faculty Package[a]: ENGG1120/1130/ESTR1005/1006	Units 3
2.	Required Courses:	20
(a)	EEEN2020, 2030, EEEN2040/ESTR2404, EEEN2602, EEEN3030/ ESTR3402, ELEG2202#/3207#[b], ESSC2800#, MAEG2030/	30
(b)	ESTR2402, MAEG2601, 3030, MAEG4030/ESTR4412 Research Component Courses[c]:	6
(0)	EEEN4998, 4999	0
3.	Elective Courses:	12
(a)	Core Electives (at least 6 units):	
	ARCH3424#, EEEN3010/ESTR3410, EEEN4020/ESTR4402,	
	EEEN4050/ESTR4422, EEEN4060/ESTR4424, ESSC4240#,	
(b)	MAEG3050/ESTR3406, MAEG4080/ESTR4420 Non-core Electives[d]:	
(0)	ARCH5431#, CHEM4280#, CSCI1020, 2040#, CSCI2100#/	
	ESTR2102, EEEN3020/ESTR3400, EEEN4010/ESTR4400,	
	EEEN4030/ESTR4404, ELEG3601#, ENGG1820, ENGG2760/	
	ESTR2018, ENGG2780/ESTR2020, ENSC3230#, 4240#, ESSC2020,	
	3200#, 3220#, 3320#, 3600#, 3800#, 4540#, GRMD2404, 3202#,	
	3203#, 3403#, 4202#, 4204#, 4401#, MAEG1020, 3920, 5120, 5140,	
	5150, PHYS4420#	

Strea	ams				
Stude	Students may specialize in any of the three streams by completing a				
	minimum of 12 units of courses prescribed by that stream. Students may				
choo	choose not to specialize in any stream or to specialize in at most two streams.				
Sust	Sustainable Energy Technology				
(a)	Required Courses:				
	EEEN4020/ESTR4402				
(b)	Elective Courses:				
	CHEM4280, EEEN4010/ESTR4400, EEEN4030/ESTR4404,				
	EEEN4050/ESTR4422, EEEN4060/ESTR4424, ELEG3601,				
	MAEG5120, 5150				
Gree	Green Building Technology				
(a)	Required Courses:				
	ARCH3424, EEEN3010/ESTR3410				
(b)	Elective Courses:				
	ARCH5431, EEEN3020/ESTR3400, MAEG3050/ESTR3406,				
	MAEG3920, 5150				
	ronmental Engineering				
(a)	Required Courses:				
	ESSC4240, GRMD3203				
(b)	Elective Courses:				
	ARCH5431, ENSC3230, 4240, ESSC2020, GRMD4204,				
	MAEG4080/ESTR4420, MAEG5140				
	Total: 51				

In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty:

Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[e]

Elective Courses:

15 units of courses[f]:

- i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and at least 6 units of courses at 3000 or 4000 level[g]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

- EEEN, ENGG and MAEG courses at 2000 and above level as well as those labeled as #, and their reciprocal ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.
- 2. Students satisfying all the requirements of a stream (except the ELITE Stream, which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department.
- [a] Based on the admission qualifications of the Higher Diploma holders, students will be recommended by the Department to take either ENGG1120/ESTR1005 or ENGG1130/ESTR1006.
- [b] Based on the admission qualifications of the Higher Diploma holders, students will be recommended by the Department to take either ELEG2202 or 3207.
- [c] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for EEEN4998 and 4999.

- [d] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 2040, CSCI2100/ESTR2102.
- [e] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite).
 Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [f] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 2(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- [g] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern (for Higher Diploma holders admitted to senior-year places)	Units
First Year of	1 st term	
Attendance	Faculty Package:	
	Major Required: EEEN2020, ELEG2202/3207, ESSC2800	9
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1120/1130/ESTR1005/1006	3
	Major Required: EEEN2040/ESTR2404, MAEG2030/ESTR2402,	11
	MAEG2601, 3030	
	Major Elective(s):	
	Summer session	
	Major Required: EEEN2602	1
Second Year of	1 st term	
Attendance	Major Required: EEEN4998, MAEG4030/ESTR4412	6
	Major Elective(s): 2 courses	6
	2 nd term	
	Major Required: EEEN2030, EEEN3030/ESTR3402, EEEN4999	9
	Major Elective(s): 2 courses	6
	Total (including Faculty Packages):	51