

**Energy Engineering**  
**Applicable to students admitted in 2012-13**

**Major Programme Requirement**

Students are required to complete a minimum of 75 units of courses as follows:

	Units
1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2600/ ESTR2008	9
2. Foundation Science Courses:	9
(a) 6 units of Physics:	
(i) ENGG1310#/2520/ESTR2006[a], PHYS1110 OR	
(ii) PHYS1003[b], 1110	
(b) 3 units of other Science Course: CHEM1070, 1280, 1380[c], LSCI1001,1003	
3. Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510	12
4. Required Courses:	
(a) ELEG2202, ENER2010, 2020, ENER3030/ESTR3402, MAEG2030/ESTR2402, SEEM2540	18
(b) Research Component Courses[d]: ENER4998, 4999	6
5. Elective Courses (select a total of 21 units from Core Electives and Non-core Electives, in which at least 8 units should be from Core Electives):	21
(a) Core Electives: CHEM4280#, ELEG3601, ENER4010/ESTR4400, ENER4020/ ESTR4402, ENER4030/ESTR4404, ENER4040/ESTR4406, ENER4050/ESTR4422, ENER4060/ESTR4424, MAEG4030/ ESTR4412, MAEG4080/ESTR4420	
(b) Non-core Electives[e]: ARCH2421, CSCI1020, 1040, 1050, CSCI2100/ESTR2102, ELEG3207, ENER3020/ESTR3400, ENGG1820, ENSC2270, 3230#, 4240#, GRMD2404, 3203#, 4202#, 4204#, MAEG2020/ESTR2400, MAEG3010, 3030, MAEG3050/ ESTR3406, MAEG3920, MAEG4020/ESTR4410	
<b>Total:</b>	<b>75</b>

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**[f]

Elective Courses:

15 units of courses[g]:

- 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[h]
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[i]

Explanatory Notes:

1. Students who have completed the courses ENGG1110/ESTR1002 and ENGG2600/ESTR2008 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of University Core IT Requirement. Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at <https://engg1000.cse.cuhk.edu.hk/index.html>.
2. BMEG/CENG/CSCI/EEEN/ELEG/ENER/ENGG/ESTR/IERG/MAEG/SEEM courses at 2000 and above level as well as those labeled as # will be included in the calculation of Major GPA for honours classification.
  - [a] For students who have attained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [b] For students who have attained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [c] Major students are strongly advised to take CHEM1380.
  - [d] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for ENER4998 and 4999.
  - [e] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
  - [f] 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](http://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.
  - [g] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.
  - [h] 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).

- [i] 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.

	<b>Recommended Course Pattern</b>	<b>Units</b>
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380 (if applicable), MATH1510, PHYS1110 (or 1003) Major Elective(s):	3 6-9
	2 <sup>nd</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380 (if applicable), ENGG1310/2520/ESTR2006 (or PHYS1110), ENGG1410/ESTR1004 Major Elective(s):	3 6-9
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER2010, ENGG2420/ESTR2000 Major Elective(s): 0 or 1 course	6 0-3
	2 <sup>nd</sup> term Faculty Package: ENGG2600/ESTR2008 Major Required: ELEG2202, ENGG2430/ESTR2002, MAEG2030/ESTR2402 Major Elective(s):	3 9
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER2020, ENER3030/ESTR3402 Major Elective(s): 1 to 2 course(s)	6 3-6
	2 <sup>nd</sup> term Major Required: SEEM2540 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Fourth Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER4998 Major Elective(s): 1 to 2 course(s)	3 3-6
	2 <sup>nd</sup> term Major Required: ENER4999 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Total (including Faculty Package):</b>		<b>75</b>

**Energy Engineering**  
**Applicable to students admitted in 2013-14**

**Major Programme Requirement**

Students are required to complete a minimum of 75 units of courses as follows:

	Units
1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2600/ ESTR2008	9
2. Foundation Science Courses:	9
(a) 6 units of Physics:	
(i) ENGG1310#/2520/ESTR2006[a], PHYS1110 OR	
(ii) PHYS1003[b], 1110	
(b) 3 units of other Science Course: CHEM1070, 1280, 1380[c], LSCI1001,1003	
3. Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510	12
4. Required Courses:	
(a) ELEG2202, ENER2010, 2020, ENER3030/ESTR3402, MAEG2030/ESTR2402, SEEM2540	18
(b) Research Component Courses[d]: ENER4998, 4999	6
5. Elective Courses (select a total of 21 units from Core Electives and Non-core Electives, in which at least 8 units should be from Core Electives):	21
(a) Core Electives: CHEM4280#, EEEN3010, ELEG3601, ENER4010/ESTR4400, ENER4020/ESTR4402, ENER4030/ESTR4404, ENER4050/ ESTR4422, ENER4060/ESTR4424, MAEG4030/ESTR4412, MAEG4080/ESTR4420	
(b) Non-core Electives[e]: ARCH2421, 3424#, 5431#, CSCI1020, 1040, 1050, CSCI2100/ESTR2102, ELEG3207, ENER3020/ESTR3400, ENGG1820, ENSC2270, 3230#, 4240#, ESSC2020, 4240#, GRMD2404, 3203#, 4202#, 4204#, MAEG2020/ESTR2400, MAEG3010, 3030, MAEG3050/ESTR3406, MAEG3920, MAEG4020/ESTR4410	

<b>Total:</b>	<b>75</b>
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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**<sup>[f]</sup>

Elective Courses:

15 units of courses<sup>[g]</sup>:

- 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<sup>[h]</sup>
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level<sup>[i]</sup>

Explanatory Notes:

1. Students who have completed the courses ENGG1110/ESTR1002 and ENGG2600/ESTR2008 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of University Core IT Requirement. Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at <https://engg1000.cse.cuhk.edu.hk/index.html>.
2. BMEG/CENG/CSCI/EEEN/ELEG/ENER/ENGG/ESTR/IERG/MAEG/SEEM courses at 2000 and above level as well as those labeled as # will be included in the calculation of Major GPA for honours classification.
  - [a] For students who have attained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [b] For students who have attained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [c] Major students are strongly advised to take CHEM1380.
  - [d] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for ENER4998 and 4999.
  - [e] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
  - [f] 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](http://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.
  - [g] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.

[h]	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).
[i]	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.

	<b>Recommended Course Pattern</b>	<b>Units</b>
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380 (if applicable), MATH1510, PHYS1110 (or 1003) Major Elective(s):	3 6-9
	2 <sup>nd</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380 (if applicable), ENGG1310/2520/ESTR2006 (or PHYS1110), ENGG1410/ESTR1004 Major Elective(s):	3 6-9
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER2010, ENGG2420/ESTR2000 Major Elective(s): 0 or 1 course	6 0-3
	2 <sup>nd</sup> term Faculty Package: ENGG2600/ESTR2008 Major Required: ELEG2202, ENER2020, ENGG2430/ ESTR2002, MAEG2030/ESTR2402 Major Elective(s):	3 12
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER3030/ESTR3402 Major Elective(s): 1 to 2 course(s)	3 3-6
	2 <sup>nd</sup> term Major Required: SEEM2540 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Fourth Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER4998 Major Elective(s): 1 to 2 course(s)	3 3-6
	2 <sup>nd</sup> term Major Required: ENER4999 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Total (including Faculty Package):</b>		<b>75</b>

**Energy Engineering**  
**Applicable to students admitted in 2014-15**

**Major Programme Requirement**

Students are required to complete a minimum of 75 units of courses as follows:

	Units
1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2601, 2602	9
2. Foundation Science Courses[a]:	9
(a) PHYS1110	
(b) One course from the following: CHEM1070, 1380[b], LSCI1001, 1003	
(c) i) One course from the following[c][d]: CHEM1070, 1380[b], ENGG1310/2520/ESTR1003/2006, LSCI1001, 1003	
OR	
ii) PHYS1003[e]	
3. Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510[f]	12
4. Required Courses:	
(a) ELEG2202#, ENER2010, 2020, ENER3030/ESTR3402, MAEG2030/ESTR2402, SEEM2540#	18
(b) Research Component Courses[g]: ENER4998, 4999	6
5. Elective Courses (select a total of 21 units from Core Electives and Non-core Electives, in which at least 8 units should be from Core Electives):	21
(a) Core Electives: CHEM4280#, EEEN3010, ELEG3601#, ENER4010/ESTR4400, ENER4020/ESTR4402, ENER4030/ESTR4404, ENER4050/ ESTR4422, ENER4060/ESTR4424, ESSC2800, MAEG4030/ ESTR4412, MAEG4080/ESTR4420	
(b) Non-core Electives[h]: ARCH2421, 3424#, 5431#, CSCI1020, 1040, 1050, CSCI2100#/ESTR2102, ELEG3207#, ENER3020/ESTR3400, ENGG1820, ENSC2270, 3230#, 4240#, ESSC2020, 4240#, GRMD2404, 3203#, 4202#, 4204#, MAEG2020/ESTR2400, MAEG3010, 3030, MAEG3050/ESTR3406, MAEG3920,	

MAEG4020/ESTR4410

Total: 75

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**<sup>[i]</sup>

Elective Courses:

15 units of courses<sup>[j]</sup>:

- 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<sup>[k]</sup>
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level<sup>[l]</sup>

Explanatory Notes:

1. Students who have completed the courses ENGG1110/ESTR1002, ENGG2601 and 2602 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of University Core IT Requirement.  
Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at <https://engg1000.cse.cuhk.edu.hk/index.html>.
2. EEEN, ENER, 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 courses and Foundation Mathematics courses.
  - [a] Students cannot take two CHEM courses or two LSCI courses to fulfill the requirement of Foundation Science Courses in items 2(a) – (c).
  - [b] Major students are strongly advised to take CHEM1380.
  - [c] For students who have attained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [d] Courses used to fulfill item 2(b) requirement cannot be used to fulfill item 2(c) requirement.
  - [e] For students without HKDSE Physics or who have attained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [f] Students without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 on top of the 12 units of the Foundation Mathematics Course requirements. MATH1020 will be exempted for students who opt to take and pass the assessment test in the first lecture of MATH1020.
  - [g] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for ENER4998 and 4999.
  - [h] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
  - [i] 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](http://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.

- [j] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.
- [k] 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).
- [l] 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.

	<b>Recommended Course Pattern</b>	<b>Units</b>
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380/ENGG1310/2520/ ESTR1003/2006/LSCI1001/1003/PHYS1003/1110, MATH1510 Major Elective(s):	3 6-9
	2 <sup>nd</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380/ENGG1310/2520/ ESTR1003/2006/LSCI1001/1003/PHYS1003/1110, ENGG1410/ESTR1004 Major Elective(s):	3 6-9
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: ELEG2202, ENER2010, ENGG2420/ ESTR2000 Major Elective(s): 0 or 1 course	9 0-3
	2 <sup>nd</sup> term Faculty Package: ENGG2601 Major Required: ENER2020, ENGG2430/ESTR2002, MAEG2030/ESTR2402 Major Elective(s):	2 9
	Summer session Faculty Package: ENGG2602	1
	1 <sup>st</sup> term Major Required: ENER3030/ESTR3402 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER3030/ESTR3402 Major Elective(s): 1 to 2 course(s)	3 3-6

	2 <sup>nd</sup> term Major Required: SEEM2540 Major Elective(s): 1 to 2 course(s)	3 3-6
<b>Fourth Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER4998 Major Elective(s): 1 to 2 course(s)	3 3-6
	2 <sup>nd</sup> term Major Required: ENER4999 Major Elective(s): 1 to 2 course(s)	3 3-6
	<b>Total (including Faculty Package):</b>	

**Energy Engineering**  
**Applicable to students admitted in 2015-16**

**Major Programme Requirement**

Students are required to complete a minimum of 75 units of courses as follows:

	Units
1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2601, 2602	9
2. Foundation Science Courses[a]:	9
(a) PHYS1110	
(b) One course from the following: CHEM1070, 1380[b], LSCI1001, 1003	
(c) i) One course from the following[c][d]: CHEM1070, 1380[b], ENGG1310/ESTR1003, LSCI1001, 1003	
OR	
ii) PHYS1003[e]	
3. Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510[f]	12
4. Required Courses:	
(a) ELEG2202#, ENER2010, 2020, ENER3030/ESTR3402, MAEG2030/ESTR2402, SEEM2540#	18
(b) Research Component Courses[g]: ENER4998, 4999	6
5. Elective Courses (select a total of 21 units from Core Electives and Non-core Electives, in which at least 8 units should be from Core Electives):	21
(a) Core Electives: CHEM4280#, EEEN3010, ELEG3601#, ENER4010/ESTR4400, ENER4020/ESTR4402, ENER4030/ESTR4404, ENER4050/ ESTR4422, ENER4060/ESTR4424, ESSC2800, MAEG4030/ ESTR4412, MAEG4080/ESTR4420	
(b) Non-core Electives[h]: ARCH2421, 3424#, 5431#, CSCI1020, 1040, 1050, CSCI2100#/ESTR2102, ELEG3207#, ENER3020/ESTR3400, ENGG1820, ENSC2270, 3230#, 4240#, ESSC2020, 4240#, GRMD2404, 3203#, 4202#, 4204#, MAEG2020/ESTR2400, MAEG3010, 3030, MAEG3050/ESTR3406, MAEG3920,	

MAEG4020/ESTR4410

Total: 75

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**<sup>[i]</sup>

Elective Courses:

15 units of courses<sup>[j]</sup>:

- 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<sup>[k]</sup>
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level<sup>[l]</sup>

Explanatory Notes:

1. Students who have completed the courses ENGG1110/ESTR1002, ENGG2601 and 2602 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of University Core IT Requirement.  
Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at <https://engg1000.cse.cuhk.edu.hk/index.html>.
2. EEEN, ENER, 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 courses and Foundation Mathematics courses.
  - [a] Students cannot take two CHEM courses or two LSCI courses to fulfill the requirement of Foundation Science Courses in items 2(a) – (c).
  - [b] Major students are strongly advised to take CHEM1380.
  - [c] For students who have attained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [d] Courses used to fulfill item 2(b) requirement cannot be used to fulfill item 2(c) requirement.
  - [e] For students without HKDSE Physics or who have attained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
  - [f] Students without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 on top of the 12 units of the Foundation Mathematics Course requirements. MATH1020 will be exempted for students who opt to take and pass the assessment test in the first lecture of MATH1020.
  - [g] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for ENER4998 and 4999.
  - [h] Students are allowed to take a maximum of 3 units from the following elective list: CSCI1020, 1040, 1050, CSCI2100/ESTR2102.
  - [i] 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](http://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.

[j] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.

[k] 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).

[l] 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.

	<b>Recommended Course Pattern</b>	<b>Units</b>
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380/ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/1110, MATH1510 Major Elective(s):	3 6-9
	2 <sup>nd</sup> term Faculty Package: ENGG1100/1110/ESTR1000/1002 Major Required: CHEM1070/1380/ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/1110, ENGG1410/ESTR1004 Major Elective(s):	3 6-9
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: ELEG2202, ENER2010, ENGG2420/ ESTR2000 Major Elective(s): 0 or 1 course	9 0-3
	2 <sup>nd</sup> term Faculty Package: ENGG2601 Major Required: ENER2020, ENGG2430/ESTR2002, MAEG2030/ESTR2402 Major Elective(s):	2 9
	Summer session Faculty Package: ENGG2602	1
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: ENER3030/ESTR3402 Major Elective(s): 1 to 2 course(s)	3 3-6
	2 <sup>nd</sup> term Major Required: SEEM2540 Major Elective(s): 1 to 2 course(s)	3 3-6

<b>Fourth Year of Attendance</b>	1 <sup>st</sup> term	
	Major Required: ENER4998	3
	Major Elective(s): 1 to 2 course(s)	3-6
	2 <sup>nd</sup> term	
	Major Required: ENER4999	3
	Major Elective(s): 1 to 2 course(s)	3-6
<b>Total (including Faculty Package):</b>		<b>75</b>