

Mechanical and Automation Engineering
Applicable to students admitted in 2020-21

Major Programme Requirement

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

	Units
1. Faculty Package: ENG1110/ESTR1002, ENG1120/ESTR1005, ENG1130/ESTR1006	9
2. Foundation Courses: ENG2720/ESTR2014, ENG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b]	13
3. Required Courses:	
(a) EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b) Research Component Courses[c]: MAEG4998, 4999	6
4. Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENG1 courses at 5000 level):	14
(a) <u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI2120#, 3170#, EEEN2020, ELEG2401#, 3101#, ENG11820, ENG2020/ESTR2104, ENG2760/ESTR2018, ENG2780/ESTR2020, ENG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE[DSME]1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b) <u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG2401, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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. Students who have fulfilled the Major Programme Requirements of their respective Engineering programmes (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 .
2.	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.
3.	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]	<ul style="list-style-type: none"> i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510. ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510. iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.
[b]	<ul style="list-style-type: none"> i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110. ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements. iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.
[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 MAEG4998 and 4999.
[d]	<p>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/erg/elite).</p> <p>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.</p>
[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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

[]	<p>requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.</p> <p>Subject area code “DSME” changed to “DOTE” with effect from 2024-25.</p>
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	Recommended Course Pattern	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6
Second Year of Attendance	1 st term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s): 0 or 1 Breadth Elective course	8 0-3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
	Summer session Major Required: MAEG2602	1
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
Fourth Year of Attendance	1 st term Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
	2 nd term Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
Total (including Faculty Package):		75

Mechanical and Automation Engineering
Applicable to students admitted in 2021-22

Major Programme Requirement

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

		Units
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
2.	Foundation Courses: ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b]	13
3.	Required Courses:	
(a)	EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b)	Research Component Courses[c]: MAEG4998, 4999	6
4.	Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at 5000 level):	14
(a)	<u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI2120#, 3170#, EEEN2020, ELEG2401#, 3101#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE[DSME]1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b)	<u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG2401, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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. Students who have fulfilled the Major Programme Requirements of their respective Engineering programmes (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 .
2.	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.
3.	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]	<ul style="list-style-type: none"> i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510. ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510. iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.
[b]	<ul style="list-style-type: none"> i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110. ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements. iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.
[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 MAEG4998 and 4999.
[d]	<p>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/erg/elite).</p> <p>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.</p>
[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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.
[]	Subject area code “DSME” changed to “DOTE” with effect from 2024-25.

	Recommended Course Pattern	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6
	1 st term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s): 0 or 1 Breadth Elective course	8 0-3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
Second Year of Attendance	Summer session Major Required: MAEG2602	1
	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
	1 st term Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
Fourth Year of Attendance	2 nd term Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
	Total (including Faculty Package):	75

Mechanical and Automation Engineering
Applicable to students admitted in 2022-23

Major Programme Requirement

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

		Units
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
2.	Foundation Courses: ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b]	13
3.	Required Courses:	
(a)	EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b)	Research Component Courses[c]: MAEG4998, 4999	6
4.	Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at 5000 level):	14
(a)	<u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI3170#, EEEN2020, ELEG2401# or 3701#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE[DSME]1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b)	<u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG2401 or 3701, ENGG2020/ESTR2104, ENGG5404,
MAEG2050, 3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate courses at 5000 level[g]

Explanatory Notes:

1. EEEN, ENGG and MAEG courses at 2000 and above level as included in the Major Programme Requirement 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]	<ul style="list-style-type: none"> i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510. ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510. iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.
[b]	<ul style="list-style-type: none"> i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110. ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements. iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.
[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 MAEG4998 and 4999.
[d]	<p>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/erg/elite).</p> <p>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.</p>
[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate 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.
[]	Subject area code “DSME” changed to “DOTE” with effect from 2024-25.

	Recommended Course Pattern	Units
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First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6
Second Year of Attendance	1 st term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s): 0 or 1 Breadth Elective course	8 0-3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
	Summer session Major Required: MAEG2602	1
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
Fourth Year of Attendance	1 st term Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
	2 nd term Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
Total (including Faculty Package):		75

Mechanical and Automation Engineering
Applicable to students admitted in 2023-24

Major Programme Requirement

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

		Units
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
2.	Foundation Courses: ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b]	13
3.	Required Courses:	
(a)	EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b)	Research Component Courses[c]: MAEG4998, 4999	6
4.	Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at 5000 level):	14
(a)	<u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI3170#, EEEN2020, ELEG2401# or 3701#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE[DSME]1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b)	<u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG2401 or 3701, ENGG2020/ESTR2104, ENGG5404,
MAEG2050, 3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate courses at 5000 level[g]

Explanatory Notes:

1. EEEN, ENGG and MAEG courses at 2000 and above level as included in the Major Programme Requirement 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]	<ul style="list-style-type: none"> i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510. ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510. iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.
[b]	<ul style="list-style-type: none"> i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110. ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements. iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.
[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 MAEG4998 and 4999.
[d]	<p>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/erg/elite).</p> <p>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.</p>
[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate 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.
[]	Subject area code “DSME” changed to “DOTE” with effect from 2024-25.

	Recommended Course Pattern	Units
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First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6
Second Year of Attendance	1 st term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s): 0 or 1 Breadth Elective course	8 0-3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
	Summer session Major Required: MAEG2602	1
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
Fourth Year of Attendance	1 st term Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
	2 nd term Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
Total (including Faculty Package):		75

Major Programme Requirement		
Students are required to complete a minimum of 75 units of courses as follows:		
		Units
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
2.	Foundation Courses: ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b]	13
3.	Required Courses:	
(a)	EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b)	Research Component Courses[c]: MAEG4998, 4999	6
4.	Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at 5000 level):	14
(a)	<u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI3170#, EEEN2020, ELEG3701#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b)	<u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG3701, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate courses at 5000 level[g]

Explanatory Notes:

1. EEEN, ENGG and MAEG courses at 2000 and above level as included in the Major Programme Requirement 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]	<p>i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510.</p> <p>ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510.</p> <p>iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.</p>
[b]	<p>i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110.</p> <p>ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</p> <p>iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</p>
[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 MAEG4998 and 4999.
[d]	<p>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/erg/elite).</p> <p>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.</p>
[e]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate 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	Units
First Year of Attendance	1 st term	
	Faculty Package: ENGG1110/ESTR1002	3
	Major Required: MATH1510, PHYS1110	3-6

	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006	6
	Major Required: MAEG1020, PHYS1110 Major Elective(s):	3-6
Second Year of Attendance	1 st term	
	Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400	8
	Major Elective(s): 0 or 1 Breadth Elective course	0-3
	2 nd term	
	Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
Third Year of Attendance	Summer session	
	Major Required: MAEG2602	1
	1 st term	
	Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term	
Fourth Year of Attendance	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
	1 st term	
	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
	2 nd term	
	Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
Total (including Faculty Package):		75

Mechanical and Automation Engineering
Applicable to students admitted in 2025-26

Major Programme Requirement

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

	Units
1. Faculty Package: ENGG1110/ESTR1002, ENGG1111, ENGG1120/ESTR1005, ENGG1125/ESTR1007[a]	9
2. Foundation Courses: ENGG1130/ESTR1006[b], ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, PHYS1110[c]	13
3. Required Courses:	
(a) EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412	33
(b) Research Component Courses[d]: MAEG4998, 4999	6
4. Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at 5000 level):	14
(a) <u>Breadth Electives</u> (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI3170#, EEEN2020, ELEG3701#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1010, 4090, SEEM2440#/ESTR2500 (or DOTE1030), SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b) <u>Depth Electives</u> (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402, EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402, 5403, 5405, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150	

Streams

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

Design and Manufacturing

- (a) Required Courses:
CSCI1020
- (b) Elective Courses:
ENGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
MAEG5030, 5120, 5130, 5160, SEEM3500

Mechatronics

- (a) Required Courses:
CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
- (b) Elective Courses:
ELEG3701, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
3080, 5080

Robotics and Automation

- (a) Required Courses:
CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses:
BMEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
MAEG4010/ESTR4408, MAEG5090, 5120

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[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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate courses at 5000 level[h]

Explanatory Notes:

1. EEEN, ENGG and MAEG courses at 2000 and above level as included in the Major Programme Requirement 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]	<ul style="list-style-type: none"> i) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take ENGG1040 before they can take ENGG1125. ii) JUPAS admittees with the following HKDSE results do not need to take ENGG1040 and therefore will not be invited for the Mathematics Placement Test: <ul style="list-style-type: none"> - Level 5** in Mathematics Extended Module I; or - Level 5* or above in Mathematics Extended Module II. iii) Non-JUPAS admittees with the following public examination results do not need to take ENGG1040 and therefore will not be invited for the Mathematics Placement Test: <ul style="list-style-type: none"> - Grade 6 or above in IB Mathematics Analysis and Approaches (HL); or - Grade 7 in IB Mathematics Applications and Interpretation (HL); or - Grade A* in GCE-AL Further Mathematics. iv) Other admittees except those specified above, are required to attend a Mathematics Placement Test. Students who fail or are absent from the Placement Test will be required to take ENGG1040 before they can take ENGG1125.
[b]	Students who fail ENGG1125 in Term 1 will have to retake the course in Term 2. The pre-assigned ENGG1130 in Term 2, will therefore be dropped.
[c]	<ul style="list-style-type: none"> i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>or</u> Level 5 or above in Combined Science with Physics Component shall take PHYS1110. ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements. iii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who pass the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.
[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 MAEG4998 and 4999.
[e]	<p>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/erg/elite).</p> <p>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.</p>
[f]	Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE Stream. Item 3(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 AIST/BMEG/CENG/CSCI/EEEN/ELEG/ENGG/IERG/MAEG/SEEM research postgraduate courses at 5000 level to substitute for ESTR courses

[h]	<p>at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).</p> <p>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.</p>
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	Recommended Course Pattern	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002, ENGG1111, ENGG1125/ESTR1007 Major Required: PHYS1110 Major Elective(s):	6 0-3
	2 nd term Faculty Package: ENGG1120/ESTR1005 Major Required: ENGG1130/ESTR1006, MAEG1020, PHYS1110 Major Elective(s):	3 6-9
Second Year of Attendance	1 st term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s): 0 or 1 Breadth Elective course	8 0-3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10
	Summer session Major Required: MAEG2602	1
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	6 3-6
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3
Fourth Year of Attendance	1 st term Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3
	2 nd term Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6
Total (including Faculty Package):		75