Mechanical and Automation Engineering Applicable to students admitted in 2017-18

Bachelor of Engineering (Mechanical and Automation Engineering) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option 1st Degree: Bachelor of Engineering (Mechanical and Automation Engineering) **Major Programme Requirement** Students are required to complete a minimum of 75 units of courses as follows: Units 9 1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG1410/ **ESTR1004** 9 2. Foundation Science Courses: **PHYS1110** (a) (b) i) One course from the following[a]: CHEM1380, ENGG1310/ESTR1003 OR ii) course from the following [b]: CHEM1380, One ENGG1310/ESTR1003, LSCI1001, 1003 (c) One course from the following [a][c]: i) ENGG1310/ESTR1003, LSCI1001, 1003 OR ii) PHYS1003[b] 3. 9 Foundation Mathematics Courses: ENGG2420/ESTR2000, ENGG2430/ESTR2002, MATH1510[d] 4. **Required Courses:** ELEG2202#, MAEG2020/ESTR2400, 24 MAEG2030/ESTR2402, (a) MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, MAEG3050/ESTR3406 Research Component Courses[e]: 6 (b) MAEG4998, 4999 Elective Courses (at least 9 units of MAEG courses at 4000 and 18 5. above level or ENGG courses at 5000 level): Breadth Electives (9 units chosen from the following, with at least 3 (a) units of MAEG courses at 3000 level): CSCI1020, 1040, 1050, CSCI2100#/ESTR2102, CSCI2120#, 2800#, 3170#, DSME1030, EEEN2020, EEEN3030/ESTR3402, ELEG2401#, 3101#, ENGG1820, ENGG2020/ESTR2104,

MAEG1010, 2010 (or 1020), 2050, 3040, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, MAEG5050/ENGG5404, MAEG5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500#

Depth Electives (9 units chosen from the following courses): (b) EEEN4010/ESTR4400. EEEN4020/ESTR4402, EEEN4030/ EEEN4050/ESTR4422, ESTR4404, EEEN4060/ESTR4424, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4030/ ESTR4412, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5010/ENGG5402, MAEG5020/ENGG5403, MAEG5030, 5060, 5070, 5090, MAEG5100/ENGG5405, MAEG5110, 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 15 units of courses prescribed by the stream.

Design and Manufacturing

(a)	Required Courses:	
	CSCI1020, MAEG2010 (or 1020), 3040	
(b)	Elective Courses:	
	EEEN3030/ESTR3402, MAEG2050, MAEG3060/ESTR3408,	
	MAEG3070, 3080, 3920, MAEG4010/ESTR4408,	
	MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,	
	MAEG5030, MAEG5050/ENGG5404, MAEG5100/ENGG5405,	
	MAEG5120, 5130, 5160, SEEM3500	
Mech	atronics	
(a)	Required Courses:	
	CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416	
(b)	Elective Courses:	
	EEEN3030/ESTR3402, ELEG2401, ENGG2020/ESTR2104,	
	MAEG2050, 3080, MAEG5050/ENGG5404, MAEG5080	
Robo	tics and Automation	
(a)	Required Courses:	
	CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416	
(b)	Elective Courses:	
	EEEN3030/ESTR3402, MAEG1010, 2050, MAEG4010/	
	ESTR4408, MAEG5010/ENGG5402, MAEG5020/ENGG5403,	
	MAEG5050/ENGG5404, MAEG5090, 5120	
	Total:	75

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 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, 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.
- 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.
- 4. Students are advised to take some courses in summer sessions to reduce their course load in regular terms.
- [a] For students who have attained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
- [b] For students without HKDSE Physics or who have attained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
- [c] Courses used to fulfill item 2(b) requirement cannot be used to fulfill item 2(c) requirement.
- [d] 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 Term2. The pre-assigned course, ENGG1410, will also be dropped.
- [e] 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.
- [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). 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 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.
- [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.

Requirements for admission to the 2nd degree programme

- 1. Admission to the second degree programme is guaranteed if students have:
 - i. fulfilled all graduation requirements of the first degree programme;
 - ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and
 - iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion.

Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree through assessments like conducting interview, considering the recommendation from the first degree programme etc.

Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme)

Major Programme Requirement

Students are required to complete a minimum of 55 units of courses as follows:

1.	Faculty Package: DSME1030, 1040, MGNT1020	Units 9
2.	Required Courses:	31

ACCT2111, 2121, DSME2011, 2030, 2051. FINA2010, MGNT2510, 2610, 4010, MKTG2010 3. Elective Courses (Concentration): 15-18 Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows: **Business Economics** (a) (i) DSME2021, 4110; (ii) two courses selected from: DSME3030, 3050, 3080, 3090, 4040, 4080; and (iii) one DSME course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii) (b) **Business Analytics** DSME2021, 2040, 4020; (i) (ii) one course selected from: DSME4070, 4240, 4260; and (iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120 **General Finance** (c) DSME2021 or FINA2020; (i) 12 units of FINA courses at 3000 or above level, excluding (ii) the courses taken for fulfillment of requirement (iii), with no more than three 1-unit FINA courses; and (iii) one course from FINA3070, 3080, 4040, 4130, 4140, 4390 (d) **Financial Engineering** DSME2021 or FINA2020; (i) four courses selected from: FINA3080, 3220, 4110, 4120, (ii) 4150, 4160, 4190, 4210, 4220, 4250, 4260, 4370, 4380; and one course from FINA4040, 4130, 4140, 4390 (iii) Insurance and Risk Management (e) (i) DSME2021 or FINA2020, and FINA3210; (ii) three courses selected from: FINA2210, 3080, 3230, 3240, 3280, 4230, 4240; and one course from FINA4040, 4130, 4140, 4270, 4291, 4390 (iii) Management of International Business (f) (i) MGNT3580, 4150, MKTG3010; and (ii) three courses selected from: MGNT3010, 3080, 3100, 4080, 4090, 4130, 4140, 4510, 4530, 4540, 4550, 4570, 4600, 4620 (g) Human Resource Management MGNT2040, 3010, MKTG3010; and (i) (ii) three courses selected from: MGNT3040, 3060, 3090, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620 Marketing (h) MKTG3010, 3020, 3030, 4040; and (i) (ii) two courses selected from: MKTG3040, 3050, 3060, 4010,

	4020, 4030, 4050, 4070, 4080, 4090, 4100, 4110, 4160	
(i)	Quantitative Marketing	
	(i) MKTG3010, 4080, 4090, 4120; and	
	(ii) two courses selected from: MKTG3020, 3030, 3060, 4030,	
	4040, 4070, 4130, 4150, 4160, 4170, 4180, 4190	
(j)	General Business	
•	(i) DSME2021/FINA2020/MKTG3010; and	
	(ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000 or	
	above level, excluding the courses taken for fulfillment of	
	requirement (i), with no more than three 1-unit FINA	
	courses	
	- Total:	55-58

Explanatory Notes:

- 1. ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111 and 2121) will be included in the calculation of Major GPA for honours classification.
- 2. Double concentrations (i) among the finance-related concentration areas (i.e. any combination of General Finance, Financial Engineering, Insurance and Risk Management), and (ii) in Marketing and Quantitative Marketing are not allowed.
- 3. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (e) and (j), except for the impermissible combination of concentrations as stipulated in Note 2 above.

MKTG3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (f) to (j), except for the impermissible combination of concentrations as stipulated in Note 2 above.

FINA2020 and the associated units can be used to satisfy concentration requirements of double concentrations within (c) to (e) and (j), except for the impermissible combination of concentrations as stipulated in Note 2 above.

MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (f) and (g).

Explanatory Notes on Mutual Recognition or Exclusion:

- 1. DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.
- 2. DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 4. MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MGNT4090 and the associated units can be used to satisfy both the requirements of the first and second degrees.

	1 st degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 nd degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of	1 st term		1 st term	
Attendance	Faculty Package: ENGG1100/ 1110/ESTR1000/1002 Major Required: CHEM1380/	3 6-9	Faculty Package: Major Required: Major Elective(s):	
	ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/ 1110, MATH1510 Major Elective(s):	0 7		
	2 nd term		2 nd term	
	Faculty Package: ENGG1100/ 1110/ESTR1000/1002, ENGG1410/ESTR1004	6	Faculty Package: Major Required: Major Elective(s):	
	Major Required: CHEM1380/ ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/ 1110 Major Elective(s):	3-6		
Second Year of			1 st term	
Attendance	Major Required: ELEG2202, ENGG2420/ESTR2000, MAEG2020/ESTR2400 Major Elective(s):	9	Faculty Package: DSME1030, MGNT1020 Major Required: Major Elective(s):	6
	2 nd term Major Required: ENGG2430/ ESTR2002, MAEG2030/	8	2 nd term Faculty Package: DSME1040 Major Required: DSME2011	3 4
	ESTR2402, MAEG2601 Major Elective(s): 0 or 1 Breadth Elective course	0-3	Major Elective(s):	
	Summer session	_		
Third Year of	Major Required: MAEG2602 1 st term	1	1 st term	
Attendance	Major Required: MAEG3010, MAEG3050/ESTR3406	6	Major Required: ACCT2111 Major Elective(s):	3
	Major Elective(s): 0 or 1 Breadth Elective course	0-3		
	2 nd term Major Required: MAEG3020/ ESTR3404, MAEG3030	6	2 nd term Major Required: ACCT2121, MKTG2010	6

	Major Elective(s): 0 or 1 Breadth / Depth Elective course(s)	0-3	Major Elective(s):	
Fourth Year of	1 st term		1 st term	
Attendance	Major Required: MAEG4998 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DSME2030, FINA2010 Major Elective(s):	6
	2 nd term		2 nd term	
	Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DSME2051, MGNT2510 Major Elective(s):	6
Fifth Year of			1 st term	
Attendance			Major Required: MGNT2610	3
			Major Elective(s): 2-3 courses 2 nd term	6-9
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty	75	Total (including Faculty	55-58
	Package):		Package):	

Mechanical and Automation Engineering Applicable to students admitted in 2018-19

Bachelor of Engineering (Mechanical and Automation Engineering) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option 1st Degree: Bachelor of Engineering (Mechanical and Automation Engineering) **Major Programme Requirement** Students are required to complete a minimum of 75 units of courses as follows: Units 1. Faculty Package: 9 ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG1410/ ESTR1004 2. Foundation Science Courses[a]: 9 (a) PHYS1110[b] Two courses from the following: (b) ENGG1310/ESTR1003, CHEM1380, LSCI1001, 1003. PHYS1003[b] 3. 9 Foundation Mathematics Courses: ENGG2420/ESTR2000, ENGG2430/ESTR2002, MATH1510[c] 4. **Required Courses:** ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, 24 (a) MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, MAEG3050/ESTR3406 (b) Research Component Courses[d]: 6 MAEG4998, 4999 5. Elective Courses (at least 9 units of MAEG courses at 4000 and 18 above level or ENGG courses at 5000 level): Breadth Electives (9 units chosen from the following, with at least (a) 3 units of MAEG courses at 3000 level): CSCI1020, 1040, 1050, CSCI2100#/ESTR2102, CSCI2120#, 2800#, 3170#, DSME1030, EEEN2020, EEEN3030/ESTR3402, ENGG1820, ENGG2020/ESTR2104, ELEG2401#, 3101#, 2010 1020), 3040. MAEG1010, (or 2050. 3080. MAEG3060/ESTR3408, MAEG3070, 3920, MAEG5050/ENGG5404, MAEG5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500# (b) Depth Electives (9 units chosen from the following courses): EEEN4010/ESTR4400. EEEN4020/ESTR4402, EEEN4030/

	ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424,
	MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4030/
	ESTR4412, MAEG4040/ESTR4414, MAEG4050/ESTR4416,
	MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420,
	MAEG5010/ENGG5402, MAEG5020/ENGG5403, MAEG5030,
	5060, 5070, 5090, MAEG5100/ENGG5405, MAEG5110, 5150
	5000, 5070, 5090, MAEG5100/ENGO5405, MAEG5110, 5150
Stream	
	ts may choose not to specialize in any stream or to specialize in one of
	e streams by completing a minimum of 15 units of courses prescribed
by the	• • • •
by the	
Design	and Manufacturing
(a)	Required Courses:
(u)	CSCI1020, MAEG2010 (or 1020), 3040
(b)	Elective Courses:
	EEEN3030/ESTR3402, MAEG2050, MAEG3060/ESTR3408,
	MAEG3070, 3080, 3920, MAEG4010/ESTR4408,
	MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
	MAEG4020/ESTR4410, MAEG4000, MAEG4070/ESTR4418, MAEG5030, MAEG5050/ENGG5404, MAEG5100/ENGG5405,
Marka	MAEG5120, 5130, 5160, SEEM3500
	tronics
(a)	Required Courses:
(1)	CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
(b)	Elective Courses:
	EEEN3030/ESTR3402, ELEG2401, ENGG2020/ESTR2104,
	MAEG2050, 3080, MAEG5050/ENGG5404, MAEG5080
	cs and Automation
(a)	Required Courses:
(1)	CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
(b)	Elective Courses:
	EEEN3030/ESTR3402, MAEG1010, 2050, MAEG4010/
	ESTR4408, MAEG5010/ENGG5402, MAEG5020/ENGG5403,
	MAEG5050/ENGG5404, MAEG5090, 5120
	Total: 75
	ition to fulfilling the above Major Programme requirement, students may also
challen	ge themselves by taking the following stream offered by the Faculty:
0	eering Leadership, Innovation, Technology and Entrepreneurship (ELITE)
Stream	
Electiv	e Courses:
15 unit	s 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]

Explanatory Notes:

[c]

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 <u>https://engg1000.cse.cuhk.edu.hk</u>.

- 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.
- 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.
- 4. Students are advised to take some courses in summer sessions to reduce their course load in regular terms.
- [a] Students cannot take two LSCI courses to fulfill the requirements of Foundation Science Courses in item 2(b).
- [b] PHYS1110 is a required Foundation Science Course. Students who have passed PHYS1110 shall not take PHYS1003 afterwards, otherwise PHYS1003 will be counted as a free elective and cannot be used to fulfill the Foundation Science course requirements.

PHYS1003 shall be taken in accordance with students' HKDSE results or placement test results as follows:

- Students with HKDSE results but did not attain the following academic levels as stated in (i) shall take PHYS1003 before taking PHYS1110: 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.
- ii) Students without HKDSE results shall sit for the placement test arranged by the Department of Physics. Students who fail or are absent from the placement test shall take PHYS1003 before taking PHYS1110.
- 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

[d]	Term 2. The pre-assigned course, ENGG1410, will also be dropped. 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]	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.
L CI	
[f]	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.
[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.
Require 1.	ments for admission to the 2 nd degree programme Admission to the second degree programme is guaranteed if students have:
	i. fulfilled all graduation requirements of the first degree programme;
	ii. Major GPA of at least 3.0 upon completion of studies of the first degree
	programme (ERG); and
	iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014
	and mutually recognized courses by both the Engineering and Business
	Administration Faculties. In addition, students should have achieved a GPA
	of at least 3.0 in these courses while pursuing the first degree programme.
	For details of the mutually recognized courses, please refer to the
	explanatory notes on mutual recognition or exclusion.
	Students who do not satisfy the above requirements may still apply for admission
	to the second degree programme which has discretion to judge the suitability of
	the students for studying for the second degree through assessments like
	conducting interview, considering the recommendation from the first degree
	programme etc.
	Leo Semine and
	Upon fulfillment of the requirements of the first degree programme, students can
	still choose to or not to pursue the second degree programme. If a student decides
	not to pursue the second degree programme but has fulfilled the requirements of a
	relevant BBA minor programme, a minor of that BBA programme would be
	awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme) Major Programme Requirement Students are required to complete a minimum of 56 units of courses as follows: Units				
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010			
3.	Elective Courses (Concentration): Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:			
(a)	 Business Economics (i) DSME2021, 4110; (ii) two courses selected from: DSME3030, 3050, 3080, 3090, 4040, 4080; and (iii) one DSME course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii) 			
(b)	Business Analytics (i) DSME2021, 2040, 4020; (ii) one course selected from: DSME4070, 4240, 4260; and (iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120	,		
(c)	 Finance (i) DSME2021 or FINA2020; and (ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses)		
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT4070, 4090, 4130, 4270, 4570	,		
(e)	 Management of International Business (i) MGNT3580, 4150, MKTG3010; and (ii) three courses selected from: MGNT3010, 3080, 3100, 4080, 4090, 4130, 4140, 4510, 4530, 4540, 4550, 4570, 4600, 4620 			
(f)	Human Resource Management (i) MGNT2040, 3010, MKTG3010; and (ii) three courses selected from: MGNT3040, 3060, 3090.			

3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620 Marketing (g) MKTG3010, 3020, 3030, 4040; and (i) two courses selected from: MKTG3040, 3050, 3060, 4010, (ii) 4020, 4030, 4050, 4070, 4080, 4090, 4100, 4110, 4160 Quantitative Marketing (h) MKTG3010, 4080, 4090, 4120; and (i) (ii) two courses selected from: MKTG3020, 3030, 3060, 4030, 4040, 4070, 4130, 4150, 4160, 4170, 4180, 4190 **General Business** (i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or (i) above level: and (ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000 or above level, excluding the courses taken for fulfillment of requirement (i), with no more than three 1-unit FINA courses Total: 56-60

Explanatory Notes:

- 1. ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification.
- 2. Double concentrations in Marketing and Quantitative Marketing are not allowed.
- 3. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MKTG3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) to (h), except for the impermissible combination of concentrations as stipulated in Note 2 above. MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f).
- 4. Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h).
- 5. Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
- [a] ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.

Explanatory Notes on Mutual Recognition or Exclusion:

- 1. DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.
- 2. DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.

- 4. MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MGNT4090 and the associated units can be used to satisfy both the requirements of the first and second degrees.

	1 st degree: Bachelor of	Units	2 nd degree: Bachelor of	Units
	Engineering (Mechanical and Automation Engineering)		Business Administration (Integrated BBA Programme)	
First Year of	1 st term		1 st term	
Attendance	Faculty Package: ENGG1100/ 1110/ESTR1000/1002 Major Required: CHEM1380/ ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/ 1110, MATH1510 Major Elective(s):	3 6-9	Faculty Package: Major Required: Major Elective(s):	
	2 nd term		2 nd term	
	Faculty Package: ENGG1100/ 1110/ESTR1000/1002, ENGG1410/ESTR1004 Major Required: CHEM1380/ ENGG1310/ESTR1003/ LSCI1001/1003/PHYS1003/ 1110	6 3-6	Faculty Package: Major Required: Major Elective(s):	
	Major Elective(s):			
Second Year of	1 st term		1 st term	
Attendance	Major Required: ELEG2202, ENGG2420/ESTR2000, MAEG2020/ESTR2400 Major Elective(s):	9	Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term		2 nd term	
	Major Required: ENGG2430/ ESTR2002, MAEG2030/ ESTR2402, MAEG2601	8	Faculty Package: DSME1040 Major Required: Major Elective(s):	3
	Major Elective(s): 0 or 1 Breadth Elective course Summer session	0-3		
	Major Required: MAEG2602	1		
Third Year of	1 st term	-	1 st term	

Attendance	Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 0 or 1	6 0-3	Faculty Package: MGNT1020 Major Required: ACCT2111, DSME2011, MGNT2511	3 8
	Breadth Elective course 2 nd term		Major Elective(s): 2 nd term	
	Major Required: MAEG3020/ ESTR3404, MAEG3030 Major Elective(s): 0 or 1 Breadth / Depth Elective course(s)	6 0-3	Major Required: ACCT2121, IBBA3040, MKTG2010 Major Elective(s):	7
Fourth Year of	1 st term		1 st term	
Attendance	Major Required: MAEG4998 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DSME2030, FINA2010 Major Elective(s):	6
	2 nd term		2 nd term	
	Major Required: MAEG4999 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DSME2051, MGNT2611 Major Elective(s):	5
Fifth Year of			1 st term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 nd term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty Package):	75	Total (including Faculty Package):	56-60

Mechanical and Automation Engineering Applicable to students admitted in 2019-20

Bachelor of Engineering (Mechanical and Automation Engineering) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option 1st Degree: Bachelor of Engineering (Mechanical and Automation Engineering) **Major Programme Requirement** Students are required to complete a minimum of 75 units of courses as follows: Units 1. Faculty Package: 9 ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b] 3. **Required Courses:** (a) EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, 33 MAEG2030/ESTR2402. MAEG2601, 2602, 3010. MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412 Research Component Courses[c]: 6 (b) MAEG4998, 4999 4. Elective Courses (at least 6 units of MAEG courses at 4000 and 14 above level or their reciprocal ESTR courses or ENGG courses at 5000 level): Breadth Electives (at least 6 units chosen from the following (a) courses): BMEG3420#^, CSCI1020, 2040#. CSCI2100#/ESTR2102, CSCI2120#, 3170#, DSME1030, EEEN2020, ELEG2401#, 3101#. ENGG1820. ENGG2020/ESTR2104. ENGG2760/ESTR2018, ENGG2780/ESTR2020, MAEG1010, MAEG3060/ESTR3408, 2050, MAEG3070, 3080. 3920. MAEG5050/ENGG5404, MAEG5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500# (b) Depth Electives (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402. EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, MAEG4010/ESTR4408,

	MAEG4020/ESTR4410, MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418,
	MAEG4080/ESTR4420, MAEG5010/ENGG5402, MAEG5020/ENGG5403, MAEG5030, 5060, 5070, 5090,
	MAEG5100/ENGG5405, MAEG5110, 5150
Streams	
	s may choose not to specialize in any stream or to specialize in one of e streams by completing a minimum of 12 units of courses prescribed
by the st	
Dosign	and Manufacturing
(a)	Required Courses:
()	CSCI1020
(b)	Elective Courses:
× /	MAEG2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920,
	MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4060,
	MAEG4070/ESTR4418, MAEG5030, MAEG5050/ENGG5404,
	MAEG5100/ENGG5405, MAEG5120, 5130, 5160, SEEM3500
Mechat	ronics
(a)	Required Courses:
	CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
(b)	Elective Courses:
	ELEG2401, ENGG2020/ESTR2104, MAEG2050, 3080,
DI (1	MAEG5050/ENGG5404, MAEG5080
	s and Automation
(a)	Required Courses: CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
(b)	Elective Courses:
(b)	BMEG3420, MAEG1010, 2050, MAEG4010/ESTR4408,
	MAEG5010/ENGG5402, MAEG5020/ENGG5403,
	MAEG5050/ENGG5404, MAEG5090, 5120
	Total: 75
	Iotan. 75
	tion to fulfilling the above Major Programme requirement, students may also
challeng	the themselves by taking the following stream offered by the Faculty:
Engina	wing Loodowship Inpovetion Technology and Entrepresentation (ELITE)
Stream	ering Leadership, Innovation, Technology and Entrepreneurship (ELITE)
	Courses:
	of courses[e]: 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000
i)	12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000
ii)	level and at least 6 units of courses at 3000 or 4000 level[f] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at
11)	5 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

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 <u>https://engg1000.cse.cuhk.edu.hk</u>.

- 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.
- 4. Students are advised to take some courses in summer sessions to reduce their course load in regular terms.
 - 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.
 - 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] 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.

[b]

[a]

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. Students can use up to 9 units of courses which have been taken to fulfill the [e] 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. BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM [f] Students can use 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). The requirement of at least 3 units of Engineering courses at 5000 level is a [g] requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme. Inclusion of this course in the calculation of Major GPA is subject to approval. Λ Requirements for admission to the 2nd degree programme Admission to the second degree programme is guaranteed if students have: 1. i. fulfilled all graduation requirements of the first degree programme; ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 iii. and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion. Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree through assessments like conducting interview, considering the recommendation from the first degree programme etc. Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded. **2nd Degree: Bachelor of Business Administration (Integrated BBA Programme) Major Programme Requirement**

Students are required to complete a minimum of 56 units of courses as follows:

		Units
1.	Faculty Package:	9
1.	DSME1030, 1040, MGNT1020)
	DSME1030, 1010, MS1(11020	
2.	Required Courses:	32-33
	ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051,	02.00
	FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010,	
	MKTG2010	
3.	Elective Courses (Concentration):	15-18
	Students must choose at least one concentration and take five or	
	six courses among the courses prescribed under respective	
	concentration area as follows:	
(a)	Business Economics	
	(i) DSME2021, 4110;	
	(ii) two courses selected from: DSME3000, 3011, 3030, 3050,	
	3080, 3090, 4040, 4080; and	
	(iii) one DSME course at 3000 or above level, excluding the	
	courses taken for fulfillment of requirement (i) or (ii)	
(b)	Business Analytics	
	(i) DSME2021, 2040, 4020;	
	(ii) one course selected from: DSME4070, 4240, 4260; and	
	(iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120	
(c)	Finance	
	(i) DSME2021 or FINA2020; and	
	(ii) 15 units of FINA courses at 3000 or above level, with no	
	more than three 1-unit FINA courses	
(d)	Entrepreneurship	
	(i) MGNT1070, 2070, 3070, 4170; and	
	(ii) two courses selected from: MGNT4070, 4090, 4130, 4270,	
	4570	
(e)	Management of International Business	
	(i) MGNT3080, 3580, 4150; and	
	(ii) three courses selected from: MGNT3010, 3100, 4080,	
	4090, 4130, 4140, 4510, 4530, 4540, 4550, 4570, 4600,	
(2)	4620	
(f)	Human Resource Management	
	(i) MGNT2040, 3010, 3090; and (ii) three courses selected from: MCNT2040, 2060, 2100	
	(ii) three courses selected from: MGNT3040, 3060, 3100,	
(\mathbf{q})	4050, 4060, 4080, 4110, 4130, 4140, 4620 Marketing	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and	
	 (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 	
	4030, 4050, 4070, 4080, 4090, 4110, 4160	
(h)	Big Data and Quantitative Marketing	
(11)	Dig Dum and Quantitative marketing	

	(i) MKTG3010, 3060, 4080, 4120; and
	(ii) two courses selected from: MKTG3020, 4030, 4050, 4070, 4090, 4150, 4160, 4170, 4180, 4190
(i)	General Business
	(i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or
	above level; and
	(ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000
	or above level, excluding the courses taken for fulfillment
	of requirement (i), with no more than three 1-unit FINA
	courses
	Total: 56-60
-	natory Notes:
1.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level
	(excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be include
_	in the calculation of Major GPA for honours classification.
2.	Double concentrations in Marketing and Big Data and Quantitative Marketing and
2	not allowed.
3.	DSME2021 and the associated units can be used to satisfy concentration
	requirements of double concentrations within (a) to (c).
	MGNT3010 and the associated units can be used to satisfy concentration
4.	requirements of double concentrations within (e) and (f).
4.	Courses taken for the concentration requirements of General Busines Concentration cannot be counted towards the requirements of concentrations (a) t
	(h).
5.	Students claiming Entrepreneurship Concentration are not allowed to declar
5.	Minor in Entrepreneurship and Innovation.
[a]	ACCT2151 and ACCT3151 are mutually exclusive. Students who would like t
Ľ۳]	pursue a career in accounting profession are advised to take ACCT3151 instead of
	ACCT2151.
-	natory Notes on Mutual Recognition or Exclusion:
1.	DSME2011 and the associated units can be exempted from the requirement of the
	second degree by successfully completing ENGG2430/ESTR2002 <u>O</u>
C	ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
2.	DSME2051 and the associated units can be exempted from the requirement of the
	second degree by successfully completing SEEM3490.
2	
3.	
	DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.
3. 4.	the first and second degrees. MGNT1020 and the associated units can be used to satisfy both the requirement
	the first and second degrees.

	1 st degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 nd degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of	1 st term		1 st term	
Attendance	Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	Faculty Package: Major Required: Major Elective(s):	
	2 nd term		2 nd term	
	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	Faculty Package: Major Required: Major Elective(s):	
Second Year of	1 st term		1 st term	
Attendance	Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term		2 nd term	
	Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10	Faculty Package: DSME1040 Major Required: Major Elective(s):	3
	Summer session			
	Major Required: MAEG2602	1	1 St 4	
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406, MAEG4030/ESTR4412 Major Elective(s):	9	1 st term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s):	3 4
	2 nd term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040	9	2 nd term Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

	Major Elective(s): 0 or 1 Breadth / Depth Elective course(s)	0-3	1 st .	
Fourth Year of Attendance		3	1 st term	9
	Major Required: MAEG4998 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DSME2011, 2030, MGNT2611 Major Elective(s):	9
	2 nd term		2 nd term	
	Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	Major Required: DSME2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of			1 st term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses 2 nd term	6-9
			Major Required: MGNT4010 Major Elective(s): 2-3 courses	3 6-9
	Total (including Faculty	75	Total (including Faculty	56-60
	Package):		Package):	

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

	of Engineering (Mechanical and Automation Engineering) and Bachelor ation (Integrated BBA Programme) Double Degree Option	of Busines
<u>1st De</u>	gree: Bachelor of Engineering (Mechanical and Automation Engineeri	ing)
Major	Programme Requirement	
Studen	ts 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)	Breadth Electives (at least 6 units chosen from the following courses): BMEG3420#^, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI2120#, 3170#, DSME1030, EEEN2020, ELEG2401#, 3101#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500# 1000000000000000000000000000000000000	
(b)	Depth Electives(at least 6 units chosen from the following courses):EEEN4010/ESTR4400,EEEN4020/ESTR4402, EEEN4030/ESTR4404,EEEN4030/ESTR4404,EEEN4050/ESTR4422, EEEN4060/ESTR4424,	

	MAEG4010/ESTR4408, MAEG4020/ESTR4410,
	MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060,
	MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030,
	5060, 5070, 5090, 5110, 5150
Stream	8
Student	s may choose not to specialize in any stream or to specialize in one of
the thre	e streams by completing a minimum of 12 units of courses prescribed
by the s	tream.
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
Mecha	tronics
(a)	Required Courses:
	CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
(b)	Elective Courses:
	ELEG2401, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
	3080, 5080
Roboti	cs 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
n addi	tion to fulfilling the above Major Programme requirement, students may also
challen	ge themselves by taking the following stream offered by the Faculty:
Engino	ering Leadership, Innovation, Technology and Entrepreneurship (ELITE)
Stream	
	e Courses:
	s of courses[e]: $(120)^{12}$
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:

- 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.
 - 4. Students are advised to take some courses in summer sessions to reduce their course load in regular terms.
 - 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.
 - 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.

[b]

- 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.
- Details of the entrance and coursework requirements, and declaration procedures [d] can ELITE Stream be found at the ELITE website for the (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.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

- 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.
- ^ Inclusion of this course in the calculation of Major GPA is subject to approval.

Requirements for admission to the 2nd degree programme

[e]

- 1. Admission to the second degree programme is guaranteed if students have:
 - i. fulfilled all graduation requirements of the first degree programme;
 - ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and
 - iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion.

Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree through assessments like conducting interview, considering the recommendation from the first degree programme etc.

Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme)

Major Programme Requirement

Students are required to complete a minimum of 56 units of courses as follows:

1.	Faculty Package: DSME1030, 1040, MGNT1020	9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010	32-33
3.	Elective Courses (Concentration): Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:	15-18
(a)	 Business Economics (i) DSME2021, 4110; (ii) two courses selected from: DSME3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and (iii) one DSME course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii) 	
(b)	Business Analytics (i) DSME2021, 2040, 4020; (ii) one course selected from: DSME4070, 4240, 4260; and (iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120	
(c)	 Finance (i) DSME2021 or FINA2020; and (ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses 	
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT4070, 4090, 4130, 4270, 4570	
(e)	Management of International Business (i) MGNT3080, 3580, 4150; and (ii) three courses selected from: MGNT3010, 3100, 4080, 4090, 4130, 4140, 4510, 4530, 4540, 4550, 4570, 4600, 4620	
(f)	Human Resource Management (i) MGNT2040, 3010, 3090; and (ii) three courses selected from: MGNT3040, 3060, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160	
(h)	Big Data and Quantitative Marketing (i) MKTG3010, 3060, 4080, 4120; and	

	(ii) two courses selected from: MKTG3020, 4030, 4050, 4070, 4090, 4150, 4160, 4170, 4180, 4190
(i)	General Business
(i)	(i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or
	above level; and
	(ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000
	or above level, excluding the courses taken for fulfillment
	of requirement (i), with no more than three 1-unit FINA
	courses
	Total: 56-60
Expla	anatory Notes:
1.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above leve
	(excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be include
	in the calculation of Major GPA for honours classification.
2.	Double concentrations in Marketing and Big Data and Quantitative Marketing and
	not allowed.
3.	DSME2021 and the associated units can be used to satisfy concentratio
	requirements of double concentrations within (a) to (c).
	MGNT3010 and the associated units can be used to satisfy concentratio
	requirements of double concentrations within (e) and (f).
4.	Courses taken for the concentration requirements of General Busines
	Concentration cannot be counted towards the requirements of concentrations (a) t
	(h).
5.	Students claiming Entrepreneurship Concentration are not allowed to declar
	Minor in Entrepreneurship and Innovation.
[a]	ACCT2151 and ACCT3151 are mutually exclusive. Students who would like t
[a]	pursue a career in accounting profession are advised to take ACCT3151 instead of
[a]	
	pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.
	pursue a career in accounting profession are advised to take ACCT3151 instead of

- 1. DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002 <u>OR</u> ENGG2760/ESTR2018 <u>and</u> ENGG2780/ESTR2020.
- 2. DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 4. MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MGNT4090 and the associated units can be used to satisfy both the requirements of the first and second degrees.

Recommended Course Pattern

	1 st degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 nd degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	1 st term Faculty Package: Major Required: Major Elective(s):	
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	2 nd term Faculty Package: Major Required: Major Elective(s):	
Second Year of Attendance	Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	1 st term Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s): Summer session	10	2 nd term Faculty Package: DSME1040 Major Required: Major Elective(s):	3
	Major Required: MAEG2602	1	, ot	
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 Breadth / Depth Elective course 2 nd term	6 3	1 st term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s): 2 nd term	3 4
	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective	9 0-3	Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

	course			
Fourth Year of	1 st term		1 st term	
Attendance	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3	Major Required: DSME2011, 2030, MGNT2611 Major Elective(s):	9
	2 nd term		2 nd term	
	Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	Major Required: DSME2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of			1 st term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 nd term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty Package):	75	Total (including Faculty Package):	56-60

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

Bachelor of Engineering (Mechanical and Automation Engineering) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option 1st Degree: Bachelor of Engineering (Mechanical and Automation Engineering) **Major Programme Requirement** Students are required to complete a minimum of 75 units of courses as follows: Units 1. Faculty Package: 9 ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020, MATH1510[a], PHYS1110[b] 3. **Required Courses:** (a) EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400, 33 MAEG2601, MAEG2030/ESTR2402, 2602, 3010. MAEG3020/ESTR3404, MAEG3030, 3040, MAEG3050/ESTR3406, MAEG4030/ESTR4412 Research Component Courses[c]: 6 (b) MAEG4998, 4999 Elective Courses (at least 6 units of MAEG courses at 4000 and 4. 14 above level or their reciprocal ESTR courses or ENGG courses at 5000 level): Breadth Electives (at least 6 units chosen from the following (a) courses): BMEG3420#^, CSCI1020, 2040#. CSCI2100#/ESTR2102, CSCI2120#, 3170#, DSME1030, EEEN2020, ELEG2401#, 3101#. ENGG1820. ENGG2020/ESTR2104. ENGG2780/ESTR2020, ENGG2760/ESTR2018, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500# (b) Depth Electives (at least 6 units chosen from the following courses): EEEN4010/ESTR4400, EEEN4020/ESTR4402. EEEN4030/ESTR4404, EEEN4050/ESTR4422, EEEN4060/ESTR4424, ENGG5402. 5403. 5405.

 IAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, IAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 060, 5070, 5090, 5110, 5150 by choose not to specialize in any stream or to specialize in one of cams by completing a minimum of 12 units of courses prescribed n. Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408, IAEG3070, 3080, 3920, MAEG4010/ESTR4408,
 D60, 5070, 5090, 5110, 5150 y choose not to specialize in any stream or to specialize in one of earns by completing a minimum of 12 units of courses prescribed n. Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
y choose not to specialize in any stream or to specialize in one of cams by completing a minimum of 12 units of courses prescribed n. Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
ams by completing a minimum of 12 units of courses prescribed Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
ams by completing a minimum of 12 units of courses prescribed Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
n. Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
Manufacturing equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
equired Courses: SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
SCI1020 lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
lective Courses: NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
NGG5404, 5405, MAEG2050, MAEG3060/ESTR3408,
IAEG3070, 3080, 3920, MAEG4010/ESTR4408,
IAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418,
IAEG5030, 5120, 5130, 5160, SEEM3500
CS
equired Courses:
SCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
lective Courses:
LEG2401, ENGG2020/ESTR2104, ENGG5404, MAEG2050,
080, 5080
d Automation
equired Courses:
SCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
lective Courses:
MEG3420, ENGG5402, 5403, 5404, MAEG1010, 2050,
IAEG4010/ESTR4408, MAEG5090, 5120
Total: 75

Explanatory Notes:

- 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.
 - 4. Students are advised to take some courses in summer sessions to reduce their course load in regular terms.
 - 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.
 - 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.

[b]

- 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.
- Details of the entrance and coursework requirements, and declaration procedures [d] can ELITE Stream be found at the ELITE website for the (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 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.
- ^ Inclusion of this course in the calculation of Major GPA is subject to approval.

Requirements for admission to the 2nd degree programme

- 1. Admission to the second degree programme is guaranteed if students have:
 - i. fulfilled all graduation requirements of the first degree programme;
 - ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and
 - iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion.

Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree through assessments like conducting interview, considering the recommendation from the first degree programme etc.

Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme)

Major Programme Requirement

Students are required to complete a minimum of 56 units of courses as follows:

1.	Faculty Package: DSME1030, 1040, MGNT1020	9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010	32-33
3.	Elective Courses (Concentration): Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:	15-18
(a)	 Business Economics (i) DSME2021, 4110; (ii) two courses selected from: DSME3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and (iii) one DSME course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii) 	
(b)	Business Analytics (i) DSME2021, 2040, 4020; (ii) one course selected from: DSME4070, 4240, 4260; and (iii) one course selected from: DSME3030, 4030, 4110, 4220, 4280, MKTG4120	
(c)	 Finance (i) DSME2021 or FINA2020; and (ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses 	
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT4070, 4090, 4130, 4270, 4570	
(e)	 Management of International Business (i) MGNT3080, 3580, 4150; and (ii) three courses selected from: MGNT3010, 3100, 4080, 4090, 4130, 4140, 4510, 4530, 4540, 4550, 4570, 4600, 4620 	
(f)	Human Resource Management (i) MGNT2040, 3010, 3090; and (ii) three courses selected from: MGNT3040, 3060, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160	
(h)	Big Data and Quantitative Marketing (i) MKTG3010, 3060, 4080, 4090; and	

	(ii) two courses selected from: MKTG3020, 4030, 4050, 4120, 4150, 4160, 4170, 4180, 4100	
(i)	4150, 4160, 4170, 4180, 4190 General Business	
(1)	(i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or	
	above level; and	
	(ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000	
	or above level, excluding the courses taken for fulfillment	
	of requirement (i), with no more than three 1-unit FINA	
	courses	
	Total: 56-60)
F 1		
-	anatory Notes:	1 1
1.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above 1 (avaluding ACCT2111, 2121, IBBA 2040, MCNT2511, and 2512) will be included	
	(excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be incluin the calculation of Major GPA for honours classification.	Jueu
2.	Double concentrations in Marketing and Big Data and Quantitative Marketing	t are
2.	not allowed.	s are
3.	DSME2021 and the associated units can be used to satisfy concentra	ation
	requirements of double concentrations within (a) to (c).	
	MGNT3010 and the associated units can be used to satisfy concentra	ation
	requirements of double concentrations within (e) and (f).	
4.	Courses taken for the concentration requirements of General Busi	ness
	Concentration cannot be counted towards the requirements of concentrations (a	a) to
	(h).	
5.	Students claiming Entrepreneurship Concentration are not allowed to dec	clare
	Minor in Entrepreneurship and Innovation.	
[a]	ACCT2151 and ACCT3151 are mutually exclusive. Students who would lik	
	pursue a career in accounting profession are advised to take ACCT3151 instea	ıd of
	ACCT2151.	
Exnla	anatory Notes on Mutual Recognition or Exclusion:	
1.	DSME2011 and the associated units can be exempted from the requirement of	f the
	second degree by successfully completing ENGG2430/ESTR2002	OR
	ENGG2760/ESTR2018 and ENGG2780/ESTR2020.	
2.	DSME2051 and the associated units can be exempted from the requirement of	f the
	second degree by successfully completing SEEM3490.	
3.	DSME1030 and the associated units can be used to satisfy both the requirement	ts of

- 3. DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 4. MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MGNT4090 and the associated units can be used to satisfy both the requirements of the first and second degrees.

Recommended Course Pattern

	1 st degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 nd degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of Attendance	1 st term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	1 st term Faculty Package: Major Required: Major Elective(s):	
	2 nd term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	2 nd term Faculty Package: Major Required: Major Elective(s):	
Second Year of Attendance	Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	1 st term Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s): Summer session	10	2 nd term Faculty Package: DSME1040 Major Required: Major Elective(s):	3
	Major Required: MAEG2602	1	, ot	
Third Year of Attendance	1 st term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 Breadth / Depth Elective course 2 nd term	6 3	1 st term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s): 2 nd term	3 4
	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective	9 0-3	Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

	course			
Fourth Year of	1 st term		1 st term	
Attendance	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3	Major Required: DSME2011, 2030, MGNT2611 Major Elective(s):	9
	2 nd term		2 nd term	
	Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	Major Required: DSME2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of			1 st term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 nd term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty Package):	75	Total (including Faculty Package):	56-60

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

	of Engineering (Mechanical and Automation Engineering) and Bachelor ation (Integrated BBA Programme) Double Degree Option	of Business
<u>1st De</u>	gree: Bachelor of Engineering (Mechanical and Automation Engineeri	<u>ng)</u>
Major	Programme Requirement	
Studen	ts 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)	Breadth Electives (at least 6 units chosen from the following courses): BMEG3420#^, CSCI1020, 2040#, CSCI2100#/ESTR2102, CSCI2120#, 3170#, DSME1030, EEEN2020, ELEG2401#, 3101#, ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500#	
(b)	SEEM3450#/ESTR3502, SEEM3490#, 3500#Depth Electives(at least 6 units chosen from the following courses):EEEN4010/ESTR4400,EEEN4020/ESTR4402, EEEN4030/ESTR4404,EEEN4030/ESTR4404,EEEN4050/ESTR4422, EEEN4060/ESTR4424,EEEN4060/ESTR4424,ENGG5402, 5403, 5405,	

	MAEG4040/ESTR4414, MAEG4050/ESTR4416, MAEG4060, MAEG4070/ESTR4418, MAEG4080/ESTR4420, MAEG5030, 5060, 5070, 5090, 5110, 5150
Students 1	
Students 1	5060, 5070, 5090, 5110, 5150
Students 1	
	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 str	eam.
Design a	nd 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
Mechatro	
(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

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.
3.	Students are advised to take some courses in summer sessions to reduce their
	course load in regular terms.
[a]	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]	i) Students who have attained Level 4 or above in HKDSE Mathematics
	(Compulsory Part) AND Level 4 or above in Physics or 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
F 13	complete 6 units of ESTR4998 and 4999 to substitute for MAEG4998 and 4999.
[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.
[]	Students can use up to 9 units of courses which have been taken to fulfill the
[e]	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
[T]	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.
- ^ Inclusion of this course in the calculation of Major GPA is subject to approval.

Requirements for admission to the 2nd degree programme

- 1.

Admission to the second degree programme is guaranteed if students have:

- i. fulfilled all graduation requirements of the first degree programme;ii. Major GPA of at least 3.0 upon completion of studies of the first degree
- programme (ERG); and
 iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion.

Students who do not satisfy the above requirements may still apply for admission to the second degree programme which has discretion to judge the suitability of the students for studying for the second degree through assessments like conducting interview, considering the recommendation from the first degree programme etc.

Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme, a minor of that BBA programme would be awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme)

Major Programme Requirement

Students are required to complete a minimum of 56 units of courses as follows:

 1.
 Faculty Package:
 9

 DSME1030, 1040, MGNT1020
 9

 2.
 Required Courses:
 32-33

 ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051,
 32-33

 FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010,
 MKTG2010

r	Elect	ive Courses (Concentration):	15 10
3.		ive Courses (Concentration):	15-18
		ents must choose at least one concentration and take five or	
		courses among the courses prescribed under respective	
		entration area as follows:	
(a)		ness Economics	
	(i) (ii)	DSME2021, 4110; two courses selected from: DSME2000, 2011, 2020, 2050	
	(ii)	two courses selected from: DSME3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and	
	(iii)	one DSME course at 3000 or above level, excluding the	
	(111)	courses taken for fulfillment of requirement (i) or (ii)	
(b)	Busir	ness Analytics	
(0)	(i)	DSME2021, 2040, 4020;	
	(i) (ii)	one course selected from: DSME4070, 4240, 4260; and	
	(iii)	one course selected from: DSME4070, 4240, 4200, and one course selected from: DSME3030, 4030, 4110, 4220,	
	(111)	4280, MKTG4120	
(c)	Finar		
	(i)	DSME2021 or FINA2020; and	
	(ii)	15 units of FINA courses at 3000 or above level, with no	
	()	more than three 1-unit FINA courses	
(d)	Entre	preneurship	
(-)	(i)	MGNT1070, 2070, 3070, 4170; and	
	(ii)	two courses selected from: MGNT4070, 4090, 4130, 4270,	
	~ /	4570	
(e)	Mana	agement of International Business	
	(i)	MGNT3580, 4150; and	
	(ii)	four courses selected from: MGNT3010, 3080, 3100, 4080,	
		4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570	
(f)	Hum	an Resource Management	
	(i)	MGNT2040, 3010; and	
	(ii)	four courses selected from: MGNT3040, 3060, 3090, 3100,	
a - 1	- -	4050, 4060, 4080, 4110, 4130, 4140	
(g)		teting	
	(i)	MKTG3010, 3020, 3030, 4040; and	
	(ii)	two courses selected from: MKTG3040, 3050, 4010, 4020,	
(1)	р, т	4030, 4050, 4070, 4080, 4090, 4110, 4160	
(h)	0	Data and Quantitative Marketing	
	(i)	MKTG3010, 3060, 4080, 4090; and	
	(ii)	two courses selected from: MKTG3020, 4030, 4050, 4120,	
(\mathbf{i})	Gama	4150, 4160, 4170, 4180, 4190 ral Business	
(i)		3 units of DSME/FINA/MGNT/MKTG courses at 2000 or	
	(i)	above level; and	
	(ii)	12 units of DSME/FINA/MGNT/MKTG courses at 3000	
	(11)	or above level, excluding the courses taken for fulfillment	
		of requirement (i), with no more than three 1-unit FINA	
		courses	
		vouideb	

Total: 56-60

Explanatory Notes:

- 1. ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification.
- 2. Double concentrations in Marketing and Big Data and Quantitative Marketing are not allowed.
- 3. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c).

MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f).

- 4. Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h).
- 5. Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
- [a] ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.

Explanatory Notes on Mutual Recognition or Exclusion:

- 1. DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002 <u>OR</u> ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
- 2. DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 4. MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.
- 5. MGNT4090 and the associated units can be used to satisfy both the requirements of the first and second degrees.

Recommended Course Pattern						
	1 st degree: Bachelor of	Units	2 nd degree: Bachelor of	Units		
	Engineering (Mechanical		Business Administration			
	and Automation		(Integrated BBA Programme)			
	Engineering)					
First Year of	1 st term		1 st term			
Attendance	Faculty Package:	3	Faculty Package:			
	ENGG1110/ESTR1002		Major Required:			
	Major Required: MATH1510,	3-6	Major Elective(s):			
	PHYS1110					

	Major Elective(s):			
	2^{nd} term		2 nd term	
_	Faculty Package:	6	Faculty Package:	
	ENGG1120/ESTR1005,	-	Major Required:	
	ENGG1130/ESTR1006		Major Elective(s):	
1	Major Required: MAEG1020,	3-6		
	PHYS1110			
1	Major Elective(s):			
Second Year of	1 st term		1 st term	
Attendance N	Major Required: ELEG2202,	8	Faculty Package: DSME1030	3
	ENGG2720/ESTR2014,		Major Required:	
	MAEG2020/ESTR2400		Major Elective(s):	
	Major Elective(s):			
	2 nd term		2 nd term	
	Major Required:	10	Faculty Package: DSME1040	3
	EEEN3030/ESTR3402,		Major Required:	
	ENGG2740/ESTR2016,		Major Elective(s):	
	MAEG2030/ESTR2402, MAEG2601			
-				
	Major Elective(s): Summer session			
	Major Required: MAEG2602	1		
	1 st term	1	1 st term	
	Major Required: MAEG3010,	6	Faculty Package: MGNT1020	3
-	MAEG3050/ESTR3406	Ū	Major Required: ACCT2111,	4
	Major Elective(s): 1 Breadth /	3	MGNT2511	
	Depth Elective course		Major Elective(s):	
	2 nd term		2 nd term	
1	Major Required:	9	Major Required: ACCT2121,	6
Ν	MAEG3020/ESTR3404,		MKTG2010	
Ν	MAEG3030, 3040		Major Elective(s):	
	Major Elective(s): 0 or 1	0-3		
	Breadth / Depth Elective			
	course		1 st .	
	1 st term	r	1 st term	
	Major Required:	6	Major Required: DSME2011,	9
	MAEG4030/ESTR4412, MAEG4998		2030, MGNT2611 Major Elective(s):	
	Major Elective(s): 0 or 1	0-3	141ajor Elective(8).	
	Breadth / Depth Elective	0-3		
	course			
	2 nd term		2 nd term	
	Major Required: MAEG4999	3	Major Required: DSME2051,	7
	Major Elective(s): 2 to 3	5-8	FINA2010, IBBA3040	
	Breadth / Depth Elective		Major Elective(s):	

	courses			
Fifth Year of			1 st term	
Attendance			Major Required: ACCT2151 (or	3-4
			3151), MGNT2512	
			Major Elective(s): 2-3 courses	6-9
			2 nd term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty	75	Total (including Faculty	56-60
	Package):		Package):	