# 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. 9 Faculty Package: ENGG1100/ESTR1000. ENGG1110/ESTR1002. ENGG1410/ ESTR1004 2. 9 Foundation Science Courses[a]: (a) PHYS1110[b] (b) Two courses from the following: ENGG1310/ESTR1003, CHEM1380, LSCI1001, 1003. PHYS1003[b] 3. Foundation Mathematics Courses: 9 ENGG2420/ESTR2000, ENGG2430/ESTR2002, MATH1510[c] 4. **Required Courses:** ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, (a) 24 MAEG2601, 2602, 3010, MAEG3020/ESTR3404, MAEG3030, MAEG3050/ESTR3406 Research Component Courses[d]: 6 (b) 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, ELEG2401#, 3101#, ENGG1820, ENGG2020/ESTR2104, MAEG1010, 1020). 2050, 2010 (or 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, EEEN4060/ESTR4424, ESTR4404,

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**

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
Mecha	tronics
(a)	Required Courses:
	CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
(b)	Elective Courses:
	EEEN3030/ESTR3402, ELEG2401, ENGG2020/ESTR2104,
	MAEG2050, 3080, MAEG5050/ENGG5404, MAEG5080
Roboti	cs 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

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) 2 units of PMEC/CENC/CSCI/ELEC/ENCC/IERC/MAEC/SEEM courses at
- ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[h]

Explanatory Notes:

Students who have fulfilled the Major Programme Requirements of their 1. 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. Students cannot take two LSCI courses to fulfill the requirements of Foundation [a] Science Courses in item 2(b). PHYS1110 is a required Foundation Science Course. Students who have passed [b] 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: i) 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) AND Level 4 or above in Physics or Level 5 or above in Combined Science with Physics Component. Students without HKDSE results shall sit for the placement test arranged ii) by the Department of Physics. Students who fail or are absent from the placement test shall take PHYS1003 before taking PHYS1110. [c] Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics i) 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. JUPAS admittees without HKDSE Mathematics Extended Modules I or II ii) are required to take MATH1020 concurrently with MATH1510. Students who fail MATH1510 in Term 1 will have to retake the course in iii) 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 [d] 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.
[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
101	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.

Requirements for admission to the 2<sup>nd</sup> 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** 

1.	Faculty Package:	9
	DSME1030, 1040, MGNT1020	
2.	Required Courses:	32-33
	ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010,	
	MKTG2010, IBBA3040, MGN12311, 2312, 2011, 4010,	
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	
(a)	(i) DSME2021, 4110;	
	(i) bound2021, 1110, (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	
(g)	Marketing	
	(i) MKTG3010, 3020, 3030, 4040; and	
	(ii) two courses selected from: MKTG3040, 3050, 3060, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4100, 4110, 4160,	

	4200
(h)	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, 4200
(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
<b>G</b> 1	u stowy Nistage
Expla 1.	natory Notes: ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level
1.	(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.
2. 3.	DSME2021 and the associated units can be used to satisfy concentration
۶.	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.	
5.	Students claiming Entrepreneurship Concentration are not allowed to declare
	Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
5. [a]	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare</li> <li>Minor in Entrepreneurship and Innovation.</li> <li>ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to</li> </ul>
	Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
[a]	Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation. 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.
[a] Expla	Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation. 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. natory Notes on Mutual Recognition or Exclusion:
[a]	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion: DSME2011 and the associated units can be exempted from the requirement of the</li> </ul>
[a] Expla 1.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion: DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> </ul>
[a] Expla	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion: DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the</li> </ul>
[a] Expla 1. 2.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> </ul>
[a] Expla 1.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> <li>DSME1030 and the associated units can be used to satisfy both the requirements of</li> </ul>
[a] Expla 1. 2. 3.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> <li>DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> </ul>
[a] Expla 1. 2.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> <li>DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> <li>MGNT1020 and the associated units can be used to satisfy both the requirements</li> </ul>
[a] Expla 1. 2. 3.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> <li>DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> <li>MGNT1020 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> </ul>
[a] Expla 1. 2. 3.	<ul> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>natory Notes on Mutual Recognition or Exclusion:</li> <li>DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.</li> <li>DSME2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.</li> <li>DSME1030 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> <li>MGNT1020 and the associated units can be used to satisfy both the requirements</li> </ul>

	1 <sup>st</sup> degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 <sup>nd</sup> degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of	1 <sup>st</sup> term		1 <sup>st</sup> 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 <sup>nd</sup> term		2 <sup>nd</sup> 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):	
Second Year of	Major Elective(s):		1 <sup>st</sup> term	
Attendance	Major Required: ELEG2202, ENGG2420/ESTR2000, MAEG2020/ESTR2400 Major Elective(s):	9	Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term		2 <sup>nd</sup> 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 <sup>st</sup> term	1	1 <sup>st</sup> 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		Major Elective(s):	
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required: MAEG3020/	6	Major Required: ACCT2121,	7

	ESTR3404, MAEG3030 Major Elective(s): 0 or 1 Breadth / Depth Elective course(s)	0-3	IBBA3040, MKTG2010 Major Elective(s):	
Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> 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 <sup>nd</sup> term		2 <sup>nd</sup> 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 <sup>st</sup> term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 <sup>nd</sup> 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. 9 Faculty Package: ENGG1110/ESTR1002. ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014. ENGG2740/ESTR2016. MAEG1020. MATH1510[a], PHYS1110[b] 3. **Required Courses:** EEEN3030/ESTR3402, 33 (a) ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010. MAEG3020/ESTR3404. 3040, MAEG3030. 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, 2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, MAEG5050/ENGG5404, MAEG5080, 5120, 5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502, SEEM3490#, 3500# Depth Electives (at least 6 units chosen from the following (b) 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

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: MAEG2050, MAEG3060/ESTR3408, MAEG3070, 3080, 3920, MAEG4010/ESTR4408, MAEG4020/ESTR4410, MAEG4060, MAEG4070/ESTR4418, MAEG5030, MAEG5050/ENGG5404, MAEG5100/ENGG5405, MAEG5120, 5130, 5160, SEEM3500

#### Mechatronics

 (a) Required Courses: CSCI1020, MAEG4040/ESTR4414, MAEG4050/ESTR4416
 (b) Elective Courses: ELEG2401, ENGG2020/ESTR2104, MAEG2050, 3080, MAEG5050/ENGG5404, MAEG5080

#### **Robotics and Automation**

- (a) Required Courses: CSCI1020, MAEG3060/ESTR3408, MAEG4050/ESTR4416
- (b) Elective Courses: BMEG3420, MAEG1010, 2050, MAEG4010/ESTR4408, MAEG5010/ENGG5402, MAEG5020/ENGG5403, MAEG5050/ENGG5404, 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:

Students who have fulfilled the Major Programme Requirements of their 1. 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. EEEN, ENGG and MAEG courses at 2000 and above level as well as those 2. 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. Students satisfying all the requirements of a stream (except the ELITE Stream, 3. which will be officially recorded on the academic transcript) will be given a certifying letter upon request. Further information is available from the Department. Students are advised to take some courses in summer sessions to reduce their 4. course load in regular terms. Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics [a] i) 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. JUPAS admittees without HKDSE Mathematics Extended Modules I or II ii) are required to take MATH1020 concurrently with MATH1510. Students who fail MATH1510 in Term 1 will have to retake the course in iii) Term 2. The pre-assigned course, ENGG1130, will also be dropped. [b] Students who have attained Level 4 or above in HKDSE Mathematics i) (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. Students who have declared to specialize in the ELITE Stream will be required to [c] complete 6 units of ESTR4998 and 4999 to substitute for MAEG4998 and 4999. Details of the entrance and coursework requirements, and declaration procedures [d] be found for the ELITE Stream can at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement.

Details are available at the ELITE website.

- [e] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 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.

Requirements for admission to the 2<sup>nd</sup> 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.

Units

# **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:9DOTE[DSME]1030, 1040, MGNT10209

2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 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)	<ul> <li>Business Economics</li> <li>(i) DOTE[DSME]2021, 4110;</li> <li>(ii) two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and</li> <li>(iii) one DOTE[DSME] course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii)</li> </ul>	
(b)	<ul> <li>Business Analytics</li> <li>(i) DOTE[DSME]2021, 2040, 4020;</li> <li>(ii) one course selected from: DOTE[DSME]4070, 4240, 4260; and</li> <li>(iii) one course selected from: DOTE[DSME]3030, 4030, 4110, 4220, 4280, MKTG4120</li> </ul>	
(c)	<ul> <li>Finance</li> <li>(i) DOTE[DSME]2021 or FINA2020; and</li> <li>(ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses</li> </ul>	
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT3080, 4070, 4090, 4130, 4160, 4270, 4570, 4711, 4712, 4713	
(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)	<ul> <li>Human Resource Management</li> <li>(i) MGNT2040, 3010, 3090; and</li> <li>(ii) three courses selected from: MGNT3040, 3060, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620</li> </ul>	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
(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, 4200
(i)	General Business
	(i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at
	2000 or above level; and
	(ii) 12 units of DOTE[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	natory Notes:
1.	ACCT/DOTE[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.	DOTE[DSME]2021 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 Business
	Concentration cannot be counted towards the requirements of concentrations (a) to (h).
5.	Students claiming Entrepreneurship Concentration are not allowed to declare
5.	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.
[]	Subject area code "DSME" changed to "DOTE" with effect from 2024-25.
-	natory Notes on Mutual Recognition or Exclusion:
1.	DOTE[DSME]2011 and the associated units can be exempted from the
	requirement of the second degree by successfully completing
h	ENGG2430/ESTR2002 <u>OR</u> ENGG2760/ESTR2018 <u>and</u> ENGG2780/ESTR2020.
2.	DOTE[DSME]2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3400
3.	requirement of the second degree by successfully completing SEEM3490. DOTE[DSME]1030 and the associated units can be used to satisfy both the
5.	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 <sup>st</sup> degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 <sup>nd</sup> degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of Attendance	1 <sup>st</sup> term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	1 <sup>st</sup> term Faculty Package: Major Required: Major Elective(s):	
	2 <sup>nd</sup> term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	2 <sup>nd</sup> term Faculty Package: Major Required: Major Elective(s):	
Second Year of Attendance	1 <sup>st</sup> term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	1 <sup>st</sup> term Faculty Package: DOTE[DSME]1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10	2 <sup>nd</sup> term Faculty Package: DOTE[DSME]1040 Major Required: Major Elective(s):	3
	Summer session Major Required: MAEG2602	1		
Third Year of Attendance	1 <sup>st</sup> term Major Required: MAEG3010, MAEG3050/ESTR3406, MAEG4030/ESTR4412 Major Elective(s): 2 <sup>nd</sup> term	9	1 <sup>st</sup> term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s): 2 <sup>nd</sup> term	3 4
	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course(s)	9 0-3	Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required: MAEG4998 Major Elective(s): 1 to 2 Breadth / Depth Elective course(s)	3 3-6	Major Required: DOTE[DSME]2011, 2030, MGNT2611 Major Elective(s):	9
	2 <sup>nd</sup> term Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	2 <sup>nd</sup> term Major Required: DOTE[DSME]2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of Attendance			1 <sup>st</sup> term Major Required: ACCT2151 (or 3151), MGNT2512 Major Elective(s): 2-3 courses	3-4 6-9
			2 <sup>nd</sup> term Major Required: MGNT4010 Major Elective(s): 2-3 courses	3 6-9
	Total (including Faculty Package):	75	Total (including Faculty Package):	56-60

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

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	Engineering (Mechanical and Automation Engineering) and Bachelor ion (Integrated BBA Programme) Double Degree Option	of Business
<u>1st Deg</u>	ree: Bachelor of Engineering (Mechanical and Automation Engineeri	ing)
Major F	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:	12
2.		13
	ENGG2720/ESTR2014, ENGG2740/ESTR2016, MAEG1020,	
	MATH1510[a], PHYS1110[b]	
3.	Required Courses:	
3. (a)	EEEN3030/ESTR3402, ELEG2202#, MAEG2020/ESTR2400,	33
( <i>a</i> )	MAEG2030/ESTR2402, MAEG2601, 2602, 3010,	55
	MAEG2050/ESTR2402, MAEG2001, 2002, 5010, MAEG3020/ESTR3404, MAEG3030, 3040,	
	MAEG3050/ESTR3406, MAEG4030/ESTR4412	
(b)	Research Component Courses[c]:	6
(0)	MAEG4998, 4999	0
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):	
(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)	Depth Electives (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 <a href="https://engg1000.cse.cuhk.edu.hk">https://engg1000.cse.cuhk.edu.hk</a>.
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.
Students satisfying all the requirements of a stream (except the ELITE Stream,

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.

2.

[a]

[b]

- 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.
    - 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] Details of the entrance and coursework requirements, and declaration procedures found for the ELITE Stream can be at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement.
  - Details are available at the ELITE website.

- [e] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 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.

Requirements for admission to the 2<sup>nd</sup> 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: DOTE[DSME]1030, 1040, MGNT1020	Units 9
2.	Required Courses:	32-33

	ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 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:	15-18
(a)	<ul> <li>Business Economics</li> <li>(i) DOTE[DSME]2021, 4110;</li> <li>(ii) two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and</li> <li>(iii) one DOTE[DSME] course at 3000 or above level, excluding the courses taken for fulfillment of requirement</li> </ul>	
(b)	<ul> <li>(i) or (ii)</li> <li>Business Analytics</li> <li>(i) DOTE[DSME]2021, 2040, 4020;</li> <li>(ii) one course selected from: DOTE[DSME]4070, 4240, 4260; and</li> <li>(iii) one course selected from: DOTE[DSME]3030, 4030, 4110,</li> </ul>	
(c)	<ul> <li>4220, 4280, MKTG4120</li> <li>Finance</li> <li>(i) DOTE[DSME]2021 or FINA2020; and</li> <li>(ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses</li> </ul>	
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT3080, 4070, 4090, 4130, 4160, 4270, 4570, 4711, 4712, 4713	
(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)	<ul> <li>Human Resource Management</li> <li>(i) MGNT2040, 3010, 3090; and</li> <li>(ii) three courses selected from: MGNT3040, 3060, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620</li> </ul>	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
(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, 4200	
(i)	General Business	

	<ul> <li>(i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at 2000 or above level; and</li> </ul>
	(ii) 12 units of DOTE[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	natory Notes:
1.	ACCT/DOTE[DSME]/FINA/IBBA/MGNT/MKTG courses at 2000 and abov
	level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will b included in the calculation of Major GPA for honours classification.
2.	Double concentrations in Marketing and Big Data and Quantitative Marketing ar not allowed.
3.	DOTE[DSME]2021 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 pursue a career in accounting profession are advised to take ACCT3151 instead of
	ACCT2151.
[]	Subject area code "DSME" changed to "DOTE" with effect from 2024-25.
Expla	natory Notes on Mutual Recognition or Exclusion:
1.	DOTE[DSME]2011 and the associated units can be exempted from th
	requirement of the second degree by successfully completin
-	ENGG2430/ESTR2002 OR ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
2.	DOTE[DSME]2051 and the associated units can be exempted from the
2	requirement of the second degree by successfully completing SEEM3490.
3.	DOTE[DSME]1030 and the associated units can be used to satisfy both th
1	requirements of the first and second degrees.
4.	MGNT1020 and the associated units can be used to satisfy both the requirement of the first and second degrees
5.	of the first and second degrees. MGNT4090 and the associated units can be used to satisfy both the requirement
5.	of the first and second degrees.

# **Recommended Course Pattern**

	1 <sup>st</sup> degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 <sup>nd</sup> degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of Attendance	1 <sup>st</sup> term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	1 <sup>st</sup> term Faculty Package: Major Required: Major Elective(s):	
	2 <sup>nd</sup> term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	2 <sup>nd</sup> term Faculty Package: Major Required: Major Elective(s):	
Second Year of Attendance	1 <sup>st</sup> term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	1 <sup>st</sup> term Faculty Package: DOTE[DSME]1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10	2 <sup>nd</sup> term Faculty Package: DOTE[DSME]1040 Major Required: Major Elective(s):	3
	Summer session Major Required: MAEG2602	1		
Third Year of Attendance	1 <sup>st</sup> term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 Breadth / Depth Elective course 2 <sup>nd</sup> term	6 3	1 <sup>st</sup> term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s): 2 <sup>nd</sup> term	3 4
	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3	Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3	Major Required: DOTE[DSME]2011, 2030, MGNT2611 Major Elective(s):	9
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	Major Required: DOTE[DSME]2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of			1 <sup>st</sup> term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 <sup>nd</sup> term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty	75	Total (including Faculty	56-60
	Package):		Package):	

### 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. 9 Faculty Package: ENGG1110/ESTR1002. ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014. ENGG2740/ESTR2016. MAEG1020. MATH1510[a], PHYS1110[b] 3. **Required Courses:** EEEN3030/ESTR3402, 33 (a) ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010. MAEG3020/ESTR3404. 3040, MAEG3030. 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, 3170#. CSCI2120#, DOTE[DSME]1030, EEEN2020, ENGG1820, ELEG2401#, 3101#, 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# Depth Electives (at least 6 units chosen from the following (b) 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 <a href="https://engg1000.cse.cuhk.edu.hk">https://engg1000.cse.cuhk.edu.hk</a>.
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.
Students satisfying all the requirements of a stream (except the ELITE Stream.

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.

2.

[a]

[b]

- 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.
    - 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] Details of the entrance and coursework requirements, and declaration procedures found for the ELITE Stream can be at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement.
  - Details are available at the ELITE website.

- [e] Students can use up to 9 units of courses which have been taken to fulfill the requirements of items 1 to 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
  - [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.

Requirements for admission to the 2<sup>nd</sup> 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.

Units

# **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:9DOTE[DSME]1030, 1040, MGNT10209

2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 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)	<ul> <li>Business Economics</li> <li>(i) DOTE[DSME]2021, 4110;</li> <li>(ii) two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and</li> <li>(iii) one DOTE[DSME] course at 3000 or above level, excluding the courses taken for fulfillment of requirement (i) or (ii)</li> </ul>	
(b)	<ul> <li>Business Analytics</li> <li>(i) DOTE[DSME]2021, 2040, 4020;</li> <li>(ii) one course selected from: DOTE[DSME]4070, 4240, 4260; and</li> <li>(iii) one course selected from: DOTE[DSME]3030, 4030, 4110, 4220, 4280, MKTG4120</li> </ul>	
(c)	<ul> <li>Finance</li> <li>(i) DOTE[DSME]2021 or FINA2020; and</li> <li>(ii) 15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses</li> </ul>	
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and (ii) two courses selected from: MGNT3080, 4070, 4090, 4130, 4160, 4270, 4570, 4711, 4712, 4713	
(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)	<ul> <li>Human Resource Management</li> <li>(i) MGNT2040, 3010, 3090; and</li> <li>(ii) three courses selected from: MGNT3040, 3060, 3100, 4050, 4060, 4080, 4110, 4130, 4140, 4620</li> </ul>	
(g)	Marketing (i) MKTG3010, 3020, 3030, 4040; and (ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
(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, 4190, 4200
(i)	General Business
	(i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at
	2000 or above level; and
	(ii) 12 units of DOTE[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
Fxnla	natory Notes:
1.	ACCT/DOTE[DSME]/FINA/IBBA/MGNT/MKTG courses at 2000 and above
1.	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.	DOTE[DSME]2021 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
5.	(h). Students claiming Entrepreneurship Concentration are not allowed to declare
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
լսյ	pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.
[]	Subject area code "DSME" changed to "DOTE" with effect from 2024-25.
	5
Expla	natory Notes on Mutual Recognition or Exclusion:
1.	DOTE[DSME]2011 and the associated units can be exempted from the
	requirement of the second degree by successfully completing
	ENGG2430/ESTR2002 OR ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
2.	DOTE[DSME]2051 and the associated units can be exempted from the
2	requirement of the second degree by successfully completing SEEM3490.
3.	DOTE[DSME]1030 and the associated units can be used to satisfy both the
4.	requirements of the first and second degrees. MGNT1020 and the associated units can be used to satisfy both the requirements
4.	of the first and second degrees.
5.	MGNT4090 and the associated units can be used to satisfy both the requirements
5.	of the first and second degrees.
	or the mot and become degrees.

**Recommended Course Pattern** 

	1 <sup>st</sup> degree: Bachelor of Engineering (Mechanical and Automation Engineering)	Units	2 <sup>nd</sup> degree: Bachelor of Business Administration (Integrated BBA Programme)	Units
First Year of Attendance	1 <sup>st</sup> term Faculty Package: ENGG1110/ESTR1002 Major Required: MATH1510, PHYS1110 Major Elective(s):	3 3-6	1 <sup>st</sup> term Faculty Package: Major Required: Major Elective(s):	
	2 <sup>nd</sup> term Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: MAEG1020, PHYS1110 Major Elective(s):	6 3-6	2 <sup>nd</sup> term Faculty Package: Major Required: Major Elective(s):	
Second Year of Attendance	1 <sup>st</sup> term Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	1 <sup>st</sup> term Faculty Package: DOTE[DSME]1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10	2 <sup>nd</sup> term Faculty Package: DOTE[DSME]1040 Major Required: Major Elective(s):	3
	Summer session Major Required: MAEG2602	1		
Third Year of Attendance	1 <sup>st</sup> term Major Required: MAEG3010, MAEG3050/ESTR3406 Major Elective(s): 1 Breadth / Depth Elective course 2 <sup>nd</sup> term	6 3	1 <sup>st</sup> term Faculty Package: MGNT1020 Major Required: ACCT2111, MGNT2511 Major Elective(s): 2 <sup>nd</sup> term	3 4
	Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective course	9 0-3	Major Required: ACCT2121, MKTG2010 Major Elective(s):	6

Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3	Major Required: DOTE[DSME]2011, 2030, MGNT2611 Major Elective(s):	9
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective course(s)	3 5-8	Major Required: DOTE[DSME]2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of			1 <sup>st</sup> term	
Attendance			Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses	6-9
			2 <sup>nd</sup> term	
			Major Required: MGNT4010	3
			Major Elective(s): 2-3 courses	6-9
	Total (including Faculty	75	Total (including Faculty	56-60
	Package):		Package):	

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

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. 9 Faculty Package: ENGG1110/ESTR1002. ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014. ENGG2740/ESTR2016. MAEG1020. MATH1510[a], PHYS1110[b] 3. **Required Courses:** EEEN3030/ESTR3402, 33 (a) ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010. MAEG3020/ESTR3404. 3040, MAEG3030. 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): (a) Breadth Electives (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#. CSCI2100#/ESTR2102, CSCI3170#, DOTE[DSME]1030, EEEN2020, ELEG2401#, ENGG2020/ESTR2104, ENGG1820, ENGG2760/ESTR2018, ENGG5404, ENGG2780/ESTR2020, 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, 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. 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

2.	ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses. 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]	<ul> <li>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.</li> </ul>
	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
[b]	<ul><li>Term 2. The pre-assigned course, ENGG1130, will also be dropped.</li><li>i) Students who have attained Level 4 or above in HKDSE Mathematics</li></ul>
[U]	(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. 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
۲f۱	these 9 units. A full list of ESTR courses is available at the ELITE website. Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM
[f]	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.

[]

1.

Requirements for admission to the 2<sup>nd</sup> 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.

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.

Units

# 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: DOTE[DSME]1030, 1040, MGNT1020	9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 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	15-18

	(i) (ii)	two courses selected from: MKTG3020, 4030, 4050, 4120, 4150, 4160, 4170, 4180, 4190, 4200	
(h)	Big I (i)	Data and Quantitative Marketing MKTG3010, 3060, 4080, 4090; and	
	(ii)	two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
(g)	Mark (i)	xeting MKTG3010, 3020, 3030, 4040; and	
	(ii)	four courses selected from: MGNT3040, 3060, 3090, 3100, 4050, 4060, 4080, 4110, 4130, 4140	
(f)	Hum (i)	an Resource Management MGNT2040, 3010; and	
	(ii)	four courses selected from: MGNT3010, 3080, 3100, 4080, 4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570	
	(i)	MGNT3580, 4150; and	
(e)		4160, 4270, 4570, 4711, 4712, 4713 agement of International Business	
	(i) (ii)	MGNT1070, 2070, 3070, 4170; and two courses selected from: MGNT3080, 4070, 4090, 4130,	
(d)		epreneurship	
	(ii)	15 units of FINA courses at 3000 or above level, with no more than three 1-unit FINA courses	
(-)	(i)	DOTE[DSME]2021 or FINA2020; and	
(c)	Finar	4220, 4280, MKTG4120 nce	
	(iii)	and one course selected from: DOTE[DSME]3030, 4030, 4110,	
	(i) (ii)	one course selected from: DOTE[DSME]4070, 4240, 4260;	
(b)	Busir (i)	ness Analytics DOTE[DSME]2021, 2040, 4020;	
		excluding the courses taken for fulfillment of requirement (i) or (ii)	
	(iii)	one DOTE[DSME] course at 3000 or above level,	
	(ii)	two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 3090, 4040, 4080; and	
	(i)	DOTE[DSME]2021, 4110;	
(a)	Busin	entration area as follows: ness Economics	

г 1	
-	natory Notes:
1.	ACCT/DOTE[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.	DOTE[DSME]2021 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
-	
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
<b>F</b> 1	ACCT2151.
[]	Subject area code "DSME" changed to "DOTE" with effect from 2024-25.
Expla	natory Notes on Mutual Recognition or Exclusion:
1.	DOTE[DSME]2011 and the associated units can be exempted from the
	requirement of the second degree by successfully completing
	ENGG2430/ESTR2002 OR ENGG2760/ESTR2018 and ENGG2780/ESTR2020.
2.	DOTE[DSME]2051 and the associated units can be exempted from the
	requirement of the second degree by successfully completing SEEM3490.
3.	DOTE[DSME]1030 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 <sup>st</sup> degree: Bachelor of	Units	2 <sup>nd</sup> degree: Bachelor of	Units	
	Engineering (Mechanical		<b>Business Administration</b>		
	and Automation		(Integrated BBA Programme)		
	Engineering)				
First Year of	1 <sup>st</sup> term		1 <sup>st</sup> term		
Attendance	Faculty Package:	3	Faculty Package:		
	ENGG1110/ESTR1002		Major Required:		
	Major Required: MATH1510,	3-6	Major Elective(s):		
	PHYS1110				
	Major Elective(s):				
	2 <sup>nd</sup> term		2 <sup>nd</sup> term		

	Faculty Package:	6	Faculty Declarace	
	ENGG1120/ESTR1005,	0	Faculty Package:	
	ENGG1120/ESTR1005, ENGG1130/ESTR1006		Major Required:	
		2.6	Major Elective(s):	
	Major Required: MAEG1020,	3-6		
	PHYS1110			
	Major Elective(s):			
Second Year of			1 <sup>st</sup> term	
Attendance	Major Required: ELEG2202,	8	Faculty Package:	3
	ENGG2720/ESTR2014,		DOTE[DSME]1030	
	MAEG2020/ESTR2400		Major Required:	
	Major Elective(s):		Major Elective(s):	
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required:	10	Faculty Package:	3
	EEEN3030/ESTR3402,		DOTE[DSME]1040	
	ENGG2740/ESTR2016,		Major Required:	
	MAEG2030/ESTR2402,		Major Elective(s):	
	MAEG2601			
	Major Elective(s):			
	Summer session			
		1		
	Major Required: MAEG2602	1	1 <sup>st</sup> term	
Third Year of		(		2
Attendance	Major Required: MAEG3010,	6	Faculty Package: MGNT1020	3
	MAEG3050/ESTR3406		Major Required: ACCT2111,	4
	Major Elective(s): 1 Breadth /	3	MGNT2511	
	Depth Elective course		Major Elective(s):	
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required:	9	Major Required: ACCT2121,	6
	MAEG3020/ESTR3404,		MKTG2010	
	MAEG3030, 3040		Major Elective(s):	
	Major Elective(s): 0 or 1	0-3		
	Breadth / Depth Elective			
	course			
Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required:	6	Major Required:	9
	MAEG4030/ESTR4412,		DOTE[DSME]2011, 2030,	
	MAEG4998		MGNT2611	
	Major Elective(s): 0 or 1	0-3	Major Elective(s):	
	Breadth / Depth Elective			
	course			
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required: MAEG4999	3	Major Required:	7
	Major Elective(s): 2 to 3	5-8	DOTE[DSME]2051, FINA2010,	1
	•	5-0	IBBA3040	
	Breadth / Depth Elective			
Eifth Vaar - f	courses		Major Elective(s):	
Fifth Year of			1 <sup>st</sup> term	2 4
Attendance			Major Required: ACCT2151 (or	3-4

		3151), MGNT2512	
		Major Elective(s): 2-3 courses	6-9
		2 <sup>nd</sup> term	
		Major Required: MGNT4010	3
		Major Elective(s): 2-3 courses	6-9
<b>Total (including Faculty</b>	75	Total (including Faculty	56-60
Package):		Package):	

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

lst Deg	gree: Bachelor of Engineering (Mechanical and Automation Engineeri	ng)
Major	Programme Requirement	
Studen	ts are required to complete a minimum of 75 units of courses as follows:	<b>T</b> T '4
1.	Faculty Package:	Units 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, MAEG2030/ESTR2402, MAEG2601, 2602, 3010,	33
	MAEG2050/ESTR2402, MAEG2001, 2002, 5010, MAEG3020/ESTR3404, MAEG3030, 3040,	
1 \	MAEG3050/ESTR3406, MAEG4030/ESTR4412	ſ
(b)	Research Component Courses[c]: MAEG4998, 4999	6
1.	Elective Courses (at least 6 units of MAEG courses at 4000 and above level or their reciprocal ESTR courses or ENGG courses at	14
	5000 level):	
(a)	<u>Breadth Electives</u> (at least 6 units chosen from the following courses):	
	BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102,	
	CSCI3170#, DOTE[DSME]1030, EEEN2020, ELEG2401#,	
	ENGG1820, ENGG2020/ESTR2104, ENGG2760/ESTR2018, ENGG2780/ESTR2020, ENGG5404, MAEG1010, 2050,	
	MAEG3060/ESTR3408, MAEG3070, 3080, 3920, 5080, 5120,	
	5130, 5140, 5160, MGNT1020, 4090, SEEM3450#/ESTR3502,	
1 \	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. 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

<ul> <li>ESTR courses will be included in the calculation of Major GPA for honours classification, excluding courses in Faculty Package and Foundation courses.</li> <li>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.</li> <li>Students are advised to take some courses in summer sessions to reduce their course load in regular terms.</li> <li>[a] i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Tests. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510.</li> <li>[ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1610 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.</li> <li>[b] i) Students who fail or atained Level 4 or above in HKDSE Mathematies (Compulsory Part) AND Level 4 or above in Physics or above in Combined Science with Physics Component shall take PHYS1110.</li> <li>[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.</li> <li>[iii) Students who ave declared to specialize in the ELITE Stream time the shall take PHYS1100. Students who fail or are absent from the placement test shall take PHYS1101. Students who fail or are absent from the placement test shall take PHYS1103. Students who pas the placement test shall take PHYS1103. Students who pas the placement test shall take PHYS1103. Students who fail or are absent from the placement test shall take PHYS1103. Students who pas the placement test shall take PHYS1103. Students who pas the placement test shall take PHYS1103</li></ul>	_		
<ol> <li>Students are advised to take some courses in summer sessions to reduce their course load in regular terms.</li> <li>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.</li> <li>ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510.</li> <li>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.</li> <li>(b) i) Students who have attained Level 4 or above in PHSDES Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in ThSDES Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics or Level 5 or above in Combined Science with Physics Component shall take PHYS1110.</li> <li>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.</li> <li>iii) Students without HKDSE results shall sit for the placement test shall take PHYS1110. Students who fail or are absent from the placement test shall take PHYS1103 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> <li>(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 MAEG4988 and 4999.</li> <li>(d) Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuth.edu.hk/clite).</li> <li>Non-ELITE Engineering students may be allowed to take ESTR courses. Students are available at the ELITE website.</li> <li>[e] Students can us</li></ol>		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
<ul> <li>course load in regular terms.</li> <li>[a] <ul> <li>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.</li> <li>ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.</li> <li>[b]</li> <li>i) 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.</li> <li>[b]</li> <li>ii) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in Physics <u>Ornpore</u> 10.</li> <li>iii) 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.</li> <li>iii) Students without HKDSE results shall sit for the placement test shall take PHYS1100. Students who fail or are absent from the placement test shall take PHYS1100. Students who fail or are absent from the placement test shall take PHYS1100. Students who fail or are absent from the placement.</li> </ul> </li> <li>[c] Students who have declared to specialize in the ELITE Stream will be requirements. The pre-assigned course requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.euhk.edu.hk/elite).</li> <li>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 Programmes for using ESTR courses taken to f</li></ul>		2	1
<ul> <li>[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.</li> <li>ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510.</li> <li>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.</li> <li>[b] i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> 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 PHYS1101.</li> <li>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.</li> <li>iii) Students without HKDSE results shall sit for the placement test shall take PHYS1100. Students who fail or are absent from the placement test shall take PHYS11003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> <li>[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.</li> <li>[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/clite).</li> <li>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 Adjor Programmes for using ESTR courses taken to fulfill the Adjor Programmes for using ESTR courses taken</li></ul>		5.	
<ul> <li>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.</li> <li>ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1510 in Term 1 will have to retake the course in Term 2. The pre-assigned course, ENGG1130, will also be dropped.</li> <li>[b] i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HVS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> <li>iii) 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.</li> <li>iii) Students without HKDSE results shall sit for the placement test shall take PHYS110. 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.</li> <li>[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.</li> <li>[d] Details of the entrance and coursework requirements, and declaration procedures for using ESTR courses taken to fulfill the Major Programme Requirement. Details are vailable at the ELITE website.</li> <li>[e] Students can use up to 9 units of courses which have been taken to fulfill the requirements.</li> <li>[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 approva</li></ul>			
<ul> <li>are required to take MATH1020 concurrently with MATH1510.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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 PHYS11003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> <li>[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.</li> <li>[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).</li> <li>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.</li> <li>[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.</li> <li>[f] Students can use BMEG/CENG/CSCI/ELEG/ENG/CRG/ARG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000</li></ul>		[a]	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.
<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>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 PHYS1100. Students who fail or are absent from the placement test shall take PHYS1100. Students who fail or are absent from the placement test shall take PHYS11003 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> <li>[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.</li> <li>[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).</li> <li>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.</li> <li>[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 at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).</li> </ul>			ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II
<ul> <li>Term 2. The pre-assigned course, ENGG1130, will also be dropped.</li> <li>[b] <ul> <li>i) Students who have attained Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE Mathematics (Compulsory Part) <u>AND</u> Level 4 or above in HKDSE multipleter in Combined Science with Physics Component shall take PHYS1110.</li> <li>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.</li> <li>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 PHYS1100 in advance. PHYS1003 will be counted as a free elective but cannot be used to fulfill the Foundation course requirements.</li> </ul> [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. 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 the ELITE Stream. Item 3(b) Research Component Courses will not be included in these 9 units. A full list of ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).</li> </ul>			are required to take MATH1020 concurrently with MATH1510.
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<ul> <li>[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.</li> <li>[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).</li> </ul>			
<ul> <li>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.</li> <li>[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).</li> </ul>		[e]	
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subject to the approval of the Stream Director and the Associate Dean (Education).		[+]	
(Education).			
Loj The requirement of at reast 5 and of Engineering courses at 5000 level is a		[9]	
	L	191	

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.

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Requirements for admission to the 2<sup>nd</sup> 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.

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: DOTE[DSME]1030, 1040, MGNT1020	Units 9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 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	15-18

[]

		Total:	30-00
		unit FINA courses	56-60
		at 3000 or above level, excluding the courses taken for fulfillment of requirement (i), with no more than three 1-	
	(ii)	12 units of DOTE[DSME]/FINA/MGNT/MKTG courses	
	(1)	2000 or above level; and	
(i)	Gene (i)	aral Business 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at	
$(\mathbf{i})$		4150, 4160, 4170, 4180, 4190, 4200	
	(ii)	two courses selected from: MKTG3020, 4030, 4050, 4120,	
()	(i)	MKTG3010, 3060, 4080, 4090; and	
(h)	Βίσ Γ	Data and Quantitative Marketing	
	(ii)	two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
	(i)	MKTG3010, 3020, 3030, 4040; and	
(g)		Leting	
		4050, 4060, 4080, 4110, 4130, 4140	
	(ii)	four courses selected from: MGNT3040, 3060, 3090, 3100,	
(-)	(i)	MGNT2040, 3010; and	
(f)	Hum	an Resource Management	
	(11)	4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570	
	(i) (ii)	MGNT3580, 4150; and four courses selected from: MGNT3010, 3080, 3100, 4080,	
(e)		Agement of International Business	
$(\cdot)$	١Æ	4160, 4270, 4570, 4711, 4712, 4713	
	(ii)	two courses selected from: MGNT3080, 4070, 4090, 4130,	
	(i)	MGNT1070, 2070, 3070, 4170; and	
(d)		epreneurship	
		more than three 1-unit FINA courses	
	(ii)	15 units of FINA courses at 3000 or above level, with no	
(-)	(i)	DOTE[DSME]2021 or FINA2020; and	
(c)	Finar		
	(iii)	one course selected from: DOTE[DSME]3030, 4030, 4110, 4220, 4280, MKTG4120	
		and and approximate collected from DOTE(DSME)2020, 4020, 4110	
	(ii)	one course selected from: DOTE[DSME]4070, 4240, 4260;	
	(i)	DOTE[DSME]2021, 2040, 4020;	
(b)	Busir	ness Analytics	
		(i) or (ii)	
	(111)	excluding the courses taken for fulfillment of requirement	
	(iii)	3030, 3050, 3080, 3090, 4040, 4080; and one DOTE[DSME] course at 3000 or above level,	
	(ii)	two courses selected from: DOTE[DSME]3000, 3011,	
	(i)	DOTE[DSME]2021, 4110;	
(a)		ness Economics	
(a)	Rusin	· · · · · · · · · · · · · · · · · · ·	

<ul> <li>Explanatory Notes: <ol> <li>ACCT/DOTE[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.</li> <li>Double concentrations in Marketing and Big Data and Quantitative Marketing are not allowed.</li> </ol> </li> <li>DOTE[DSME]2021 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).</li> <li>Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of oncentrations (a) to (h).</li> <li>Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.</li> <li>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.</li> <li>Subject area code "DSME" changed to "DOTE" with effect from 2024-25.</li> </ul> Explanatory Notes on Mutual Recognition or Exclusion: <ol> <li>DOTE[DSME]2051 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.</li> <li>DOTE[DSME]2051 and the associated units can be used to satisfy both the requirements of the first and second degrees.</li> </ol>		
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Recommended Course Pattern					
	1 <sup>st</sup> degree: Bachelor of	Units	2 <sup>nd</sup> degree: Bachelor of	Units	
	Engineering (Mechanical		<b>Business Administration</b>		
	and Automation		(Integrated BBA Programme)		
	Engineering)				
First Year of	1 <sup>st</sup> term		1 <sup>st</sup> term		
Attendance	Faculty Package:	3	Faculty Package:		
	ENGG1110/ESTR1002		Major Required:		
	Major Required: MATH1510,	3-6	Major Elective(s):		
	PHYS1110				
	Major Elective(s):				
	2 <sup>nd</sup> term		2 <sup>nd</sup> term		

	Faculty Package:	6	Faculty Declarace	
	ENGG1120/ESTR1005,	0	Faculty Package:	
	ENGG1120/ESTR1005, ENGG1130/ESTR1006		Major Required:	
		2.0	Major Elective(s):	
	Major Required: MAEG1020,	3-6		
	PHYS1110			
	Major Elective(s):			
Second Year of			1 <sup>st</sup> term	
Attendance	Major Required: ELEG2202,	8	Faculty Package:	3
	ENGG2720/ESTR2014,		DOTE[DSME]1030	
	MAEG2020/ESTR2400		Major Required:	
	Major Elective(s):		Major Elective(s):	
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required:	10	Faculty Package:	3
	EEEN3030/ESTR3402,		DOTE[DSME]1040	
	ENGG2740/ESTR2016,		Major Required:	
	MAEG2030/ESTR2402,		Major Elective(s):	
	MAEG2601			
	Major Elective(s):			
	Summer session			
		1		
	Major Required: MAEG2602	1	1 <sup>st</sup> term	
Third Year of		(		2
Attendance	Major Required: MAEG3010,	6	Faculty Package: MGNT1020	3
	MAEG3050/ESTR3406		Major Required: ACCT2111,	4
	Major Elective(s): 1 Breadth /	3	MGNT2511	
	Depth Elective course		Major Elective(s):	
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required:	9	Major Required: ACCT2121,	6
	MAEG3020/ESTR3404,		MKTG2010	
	MAEG3030, 3040		Major Elective(s):	
	Major Elective(s): 0 or 1	0-3		
	Breadth / Depth Elective			
	course			
Fourth Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required:	6	Major Required:	9
	MAEG4030/ESTR4412,		DOTE[DSME]2011, 2030,	
	MAEG4998		MGNT2611	
	Major Elective(s): 0 or 1	0-3	Major Elective(s):	
	Breadth / Depth Elective		5 (7	
	course			
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Major Required: MAEG4999	3	Major Required:	7
	Major Elective(s): 2 to 3	5-8	DOTE[DSME]2051, FINA2010,	1
	•	5-0	IBBA3040	
	Breadth / Depth Elective			
Eifth Vaar - f	courses		Major Elective(s):	
Fifth Year of			1 <sup>st</sup> term	2 4
Attendance			Major Required: ACCT2151 (or	3-4

		3151), MGNT2512	
		Major Elective(s): 2-3 courses	6-9
		2 <sup>nd</sup> term	
		Major Required: MGNT4010	3
		Major Elective(s): 2-3 courses	6-9
<b>Total (including Faculty</b>	75	Total (including Faculty	56-60
Package):		Package):	

# Mechanical and Automation Engineering Applicable to students admitted in 2024-25

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. 9 Faculty Package: ENGG1110/ESTR1002. ENGG1120/ESTR1005, ENGG1130/ESTR1006 2. Foundation Courses: 13 ENGG2720/ESTR2014. ENGG2740/ESTR2016. MAEG1020. MATH1510[a], PHYS1110[b] 3. **Required Courses:** EEEN3030/ESTR3402, 33 (a) ELEG2202#, MAEG2020/ESTR2400, MAEG2030/ESTR2402, MAEG2601, 2602, 3010. MAEG3020/ESTR3404. 3040, MAEG3030. 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): (a) Breadth Electives (at least 6 units chosen from the following courses): BMEG3420#, CSCI1020, 2040#, CSCI2100#/ESTR2102, DOTE1030, CSCI3170#, EEEN2020, 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) Depth Electives (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:
  - 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. 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) <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
[œ]	for the ELITE Stream can be found at the ELITE website
	(www.erg.cuhk.edu.hk/elite).
	Non-ELITE Engineering students may be allowed to take ESTR courses.
	Students are required to seek approval from their respective Major Programmes
	for using ESTR courses taken to fulfill the Major Programme Requirement.
	Details are available at the ELITE website.
[e]	Students can use up to 9 units of courses which have been taken to fulfill the
	requirements of items 1 to 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.

Requirements for admission to the 2<sup>nd</sup> 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: DOTE1030, 1040, MGNT1020	Units 9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DOTE2011, 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)	DOTE2021, 4110;	
	(ii)	two courses selected from: DOTE3000, 3011, 3030, 3050,	
		3080, 3090, 4040, 4080; and	
	(iii)	one DOTE course at 3000 or above level, excluding the	
		courses taken for fulfillment of requirement (i) or (ii)	
(b)		ness Analytics	
	(i)	DOTE2021, 2040, 4020;	
	(ii)	one course selected from: DOTE4070, 4240, 4260; and	
	(iii)	one course selected from: DOTE3030, 4030, 4110, 4220,	
(a)	Finar	4280, MKTG4120	
(c)	(i)	DOTE2021 or FINA2020; and	
	(i) $(ii)$	15 units of FINA courses at 3000 or above level, with no	
	(11)	more than three 1-unit FINA courses	
(d)	Entre	preneurship	
	(i)	MGNT1070, 2070; and	
	(ii)	four courses selected from: MGNT3080, 4070, 4090, 4130,	
		4160, 4170, 4270, 4570, 4711, 4712, 4713	
(e)	Mana	agement of International Business	
	(i)	MGNT3580, 4150; and	
	(ii)	four courses selected from: MGNT3010, 3080, 3100, 4080,	
(2)		4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570	
(f)		an Resource Management	
	(i)	MGNT2040, 3010; and	
	(ii)	four courses selected from: MGNT3040, 3060, 3090, 3100,	
(a)	Mark	4050, 4060, 4080, 4110, 4130, 4140	
(g)	(i)	MKTG3010, 3020, 3030, 4040; and	
	(i) (ii)	two courses selected from: MKTG3040, 3050, 4010, 4020,	
	(11)	4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200	
(h)	Big I	Data and Quantitative Marketing	
	(i)	MKTG3010, 3060, 4080, 4090; and	
	(ii)	two courses selected from: MKTG3020, 4030, 4050, 4120,	
		4150, 4160, 4170, 4180, 4190, 4200	
(i)	Gene	ral Business	
	(i)	3 units of DOTE/FINA/MGNT/MKTG courses at 2000 or	
	<···>	above level; and	
	(ii)	12 units of DOTE/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	56-60
		Totai.	30-00
Expla	natory N	lotes:	
1.	•	T/DOTE/FINA/IBBA/MGNT/MKTG courses at 2000 and	above level
	(excl	uding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) wil	l be included
		e calculation of Major GPA for honours classification.	

- 2. Double concentrations in Marketing and Big Data and Quantitative Marketing are not allowed.
- 3. DOTE2021 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. DOTE2011 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. DOTE2051 and the associated units can be exempted from the requirement of the second degree by successfully completing SEEM3490.
- 3. DOTE1030 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 <sup>st</sup> degree: Bachelor of	Units	2 <sup>nd</sup> degree: Bachelor of	Units
	Engineering (Mechanical		<b>Business Administration</b>	
	and Automation		(Integrated BBA Programme)	
	Engineering)			
First Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Faculty Package:	3	Faculty Package:	
	ENGG1110/ESTR1002		Major Required:	
	Major Required: MATH1510,	3-6	Major Elective(s):	
	PHYS1110			
	Major Elective(s):			
	2 <sup>nd</sup> term		2 <sup>nd</sup> term	
	Faculty Package:	6	Faculty Package:	
	ENGG1120/ESTR1005,		Major Required:	
	ENGG1130/ESTR1006		Major Elective(s):	
	Major Required: MAEG1020,	3-6		
	PHYS1110			

	Major Elective(s):			
Second Year of	1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required: ELEG2202, ENGG2720/ESTR2014, MAEG2020/ESTR2400 Major Elective(s):	8	Faculty Package: DOTE1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term Major Required: EEEN3030/ESTR3402, ENGG2740/ESTR2016, MAEG2030/ESTR2402, MAEG2601 Major Elective(s):	10	2 <sup>nd</sup> term Faculty Package: DOTE1040 Major Required: Major Elective(s):	3
	Summer session Major Required: MAEG2602	1		
Third Year of Attendance	1 <sup>st</sup> term Major Required: MAEG3010,	6	1 <sup>st</sup> term Faculty Package: MGNT1020	3
	MAEG3050/ESTR3406 Major Elective(s): 1 Breadth / Depth Elective course	3	Major Required: ACCT2111, MGNT2511 Major Elective(s):	4
	2 <sup>nd</sup> term Major Required: MAEG3020/ESTR3404, MAEG3030, 3040 Major Elective(s): 0 or 1 Breadth / Depth Elective	9 0-3	2 <sup>nd</sup> term Major Required: ACCT2121, MKTG2010 Major Elective(s):	6
Fourth Year of	course 1 <sup>st</sup> term		1 <sup>st</sup> term	
Attendance	Major Required: MAEG4030/ESTR4412, MAEG4998 Major Elective(s): 0 or 1 Breadth / Depth Elective course	6 0-3	Major Required: DOTE2011, 2030, MGNT2611 Major Elective(s):	9
	2 <sup>nd</sup> term Major Required: MAEG4999 Major Elective(s): 2 to 3 Breadth / Depth Elective courses	3 5-8	2 <sup>nd</sup> term Major Required: DOTE2051, FINA2010, IBBA3040 Major Elective(s):	7
Fifth Year of Attendance			1 <sup>st</sup> term Major Required: ACCT2151 (or 3151), MGNT2512	3-4
			Major Elective(s): 2-3 courses 2 <sup>nd</sup> term Major Required: MGNT4010 Major Elective(s): 2-3 courses	6-9 3 6-9

Total (including Faculty	75	Total (including Faculty	56-60
Package):		Package):	