Information Engineering Applicable to students admitted in 2012-13

Major Programme Requirement	
Students are required to complete a minimum of 75 units of courses as follows:	Units
1. Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2600/ ESTR2008	9
 Foundation Science Courses: 6 units of Physics: ENGG1310/2520/ESTR2006[a], PHYS1110	9
3. Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510	12
 4. Required Courses: (a) CSCI2100/ESTR2102, ELEG3230, ENGG2310/ESTR2300, IERG2051/ESTR2302, IERG3080, 3310, 3810, 3820, 3921 (b) Research Component Courses[c]: IERG4998, 4999 	22
5. Elective Courses: Out of the 17 Elective Course units, at least 12 units should be from the following courses: CSCI3150/ESTR3102, ENGG1820, ENGG4030/ESTR4300, IERG2060, IERG3010/ESTR3300, IERG3050, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG3320/ESTR3306, IERG3830, IERG4020/ESTR4318, IERG4030, IERG4080/ESTR4312, IERG4090/ESTR4302, IERG4100/ESTR4304, IERG4110/ESTR4314, IERG4130/ESTR4306, IERG4160, IERG4180/ESTR4308, IERG4190, 4210, 4220, 4230, IERG4330/ESTR4316, IERG4831, 4841, IERG5040/ENGG5392, IERG5090, IERG5100/ENGG5303, IERG5140, IERG5154/ENGG5301, IERG5200, IERG5240/ENGG5383, IERG5270, 5280, 5290, IERG5300/ENGG5302, IERG5310, 5320, 5330 The remaining units, if any, can be fulfilled by any BMEG/CENG/CSCI/ELEG/ENER/ENGG/ESTR/MAEG/SEEM course(s) at 3000 and above level.	17

Students may choose not to specialize in any stream or to specialize in one or more of the five streams and complete a minimum of 12 units of

Streams

courses prescribed by the stream.

Big Data: Systems and Applications

CSCI3320, 4180, 4190, ELEG5491, ENGG4030/ESTR4300 (required), IERG3320/ESTR3306, IERG4080/ESTR4312, IERG4160, 4230, IERG4330/ESTR4316

Communications

IERG3010/ESTR3300, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4020/ESTR4318, IERG4030, IERG4100/ESTR4304, IERG4110/ESTR4314, IERG4130/ESTR4306, IERG4230, IERG5040/ENGG5392, IERG5100/ENGG5303, IERG5200, 5280, 5330

Cyber Security

CSCI3150/ESTR3102, IERG4130/ESTR4306 (required), IERG4210, 4220, IERG5240/ENGG5383, 5310, 5320

Internet Engineering

CSCI3150/ESTR3102 (required), IERG3050, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4080/ESTR4312, IERG4090/ESTR4302, IERG4130/ESTR4306, IERG4180/ESTR4308, IERG4190, 4210, 4831, 4841, 5090, 5270, 5280

Enrichment

CSCI3160/ESTR3104, ENGG4030/ESTR4300, IERG3010/ESTR3300, IERG3050, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4100/ESTR4304, IERG4190, IERG5154/ENGG5301, IERG5200, 5270, 5290, IERG5300/ENGG5302

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 completed the courses ENGG1110/ESTR1002 and ENGG2600/ESTR2008 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of University Core IT Requirement.
 - Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at https://engg1000.cse.cuhk.edu.hk/index.html.
- 2. BMEG/CENG/CSCI/ELEG/ENER/ENGG/ESTR/IERG/MAEG/SEEM courses at 3000 and above level will be included in the calculation of Major GPA for honours classification.
- 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. For details, please refer to the Department for information.

- [a] For students who have obtained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
- [b] For students who have obtained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
- [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 IERG4998 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 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.
- [f] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [g] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.

	Recommended Course Pattern	Units
First Year of	1 st term	
Attendance	Faculty Package: ENGG1100/1110/ESTR1000/1002	3
	Major Required: CHEM1070/1280/1380/LSCI1001,	6-9
	MATH1510, PHYS1110 (or 1003)	
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1100/1110/ESTR1000/1002	3
	Major Required: CHEM1070/1280/1380/LSCI1003,	6-9
	ENGG1410/ESTR1004, ENGG1310/2520/ESTR2006 (or	
	PHYS1110)	
	Major Elective(s):	
Second Year of	1 st term	
Attendance	Major Required: CSCI2100/ESTR2102, ENGG2420/	9
	ESTR2000, IERG2051/ESTR2302	
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG2600/ESTR2008	3
	Major Required: ENGG2310/ESTR2300, ENGG2430/	7
	ESTR2002, IERG3820	
	Major Elective(s):	
Third Year of	1 st term	
Attendance	Major Required: IERG3080, 3310, 3921	8
	Major Elective(s): 1 course	2 - 3
	2 nd term	
	Major Required: ELEG3230, IERG3810	4
	Major Elective(s): 2 courses	6

Fourth Year of	1 st term	
Attendance	Major Required: IERG4998	3
	Major Elective(s): 2 courses	6
	2 nd term	
	Major Required: IERG4999	3
	Major Elective(s): 1 course	3
	Total (including Faculty Package):	75-76

Title of Double Degree Programme/Option

Bachelor of Engineering (Information Engineering) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option

1st Degree: Bachelor of Engineering (Information Engineering)

Major Programme Requirement

Stude	ents are required to complete a minimum of 75 units of courses as follows:	Units
1.	Faculty Package: ENGG1100/ESTR1000, ENGG1110/ESTR1002, ENGG2600/ ESTR2008	9
2.	Foundation Science Courses:	9
(a) (i)	6 units of Physics: ENGG1310/2520/ESTR2006[a], PHYS1110 OR	
(ii)	PHYS1003[b], 1110	
(b)	3 units of other Science Course: CHEM1070, 1280, 1380, LSCI1001, 1003	
3.	Foundation Mathematics Courses: ENGG1410/ESTR1004, ENGG2420/ESTR2000, ENGG2430/ ESTR2002, MATH1510	12
4.	Required Courses:	
(a)	CSCI2100/ESTR2102, ELEG3230, ENGG2310/ESTR2300, IERG2051/ESTR2302, IERG3080, 3310, 3810, 3820, 3921	22
(b)	Research Component Courses[c]: IERG4998, 4999	6
5.	Elective Courses: Out of the 17 Elective Course units, at least 12 units should be	17
	from the following courses: CSCI3150/ESTR3102, ENGG1820, ENGG4030/ESTR4300,	
	IERG2060, IERG3010/ESTR3300, IERG3050, IERG3280/	
	ESTR3302, IERG3300/ESTR3304, IERG3320/ESTR3306,	
	IERG3830, IERG4020/ESTR4318, IERG4030, IERG4080/ ESTR4312, IERG4090/ESTR4302, IERG4100/ESTR4304,	
	IERG4110/ESTR4314, IERG4130/ESTR4306, IERG4160,	
	IERG4180/ESTR4308, IERG4190, 4210, 4220, 4230, IERG4330/	
	ESTR4316, IERG4831, 4841, IERG5040/ENGG5392, IERG5090,	

IERG5100/ENGG5303, IERG5140, IERG5154/ENGG5301, IERG5200, IERG5240/ENGG5383, IERG5270, 5280, 5290, IERG5300/ENGG5302, IERG5310, 5320, 5330

The remaining units, if any, can be fulfilled by any BMEG/CENG/CSCI/ELEG/ENER/ENGG/ESTR/MAEG/SEEM course(s) at 3000 and above level.

Streams

Students may choose not to specialize in any stream or to specialize in one or more of the five streams and complete a minimum of 12 units of courses prescribed by the stream.

Big Data: Systems and Applications

CSCI3320, 4180, 4190, ELEG5491, ENGG4030/ESTR4300 (required), IERG3320/ESTR3306, IERG4080/ESTR4312, IERG4160, 4230, IERG4330/ESTR4316

Communications

IERG3010/ESTR3300, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4020/ESTR4318, IERG4030, IERG4100/ESTR4304, IERG4110/ESTR4314, IERG4130/ESTR4306, IERG4230, IERG5040/ENGG5392, IERG5100/ENGG5303, IERG5200, 5280, 5330

Cyber Security

CSCI3150/ESTR3102, IERG4130/ESTR4306 (required), IERG4210, 4220, IERG5240/ENGG5383, IERG5310, 5320

Internet Engineering

CSCI3150/ESTR3102 (required), IERG3050, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4080/ESTR4312, IERG4090/ESTR4302, IERG4130/ESTR4306, IERG4180/ESTR4308, IERG4190, 4210, 4831, 4841, 5090, 5270, 5280

Enrichment

CSCI3160/ESTR3104, ENGG4030/ESTR4300, IERG3010/ESTR3300, IERG3050, IERG3280/ESTR3302, IERG3300/ESTR3304, IERG4100/ESTR4304, IERG4190, IERG5154/ENGG5301, IERG5200, 5270, 5290, IERG5300/ENGG5302

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 completed the courses ENGG1110/ESTR1002 and ENGG2600/ESTR2008 (or equivalent courses as approved by the Sub-Committee on Education Technologies) will be eligible to apply for exemption of 1 unit of

University Core IT Requirement.

Students are required to apply for the exemption. When exemption from a particular course is recognized, students can only be exempted from the course but not the units. Please follow the application procedures as announced by the IT Foundation Course Office at https://engg1000.cse.cuhk.edu.hk/index.html.

- 2. BMEG/CENG/CSCI/ELEG/ENER/ENGG/ESTR/IERG/MAEG/SEEM courses at 3000 and above level will be included in the calculation of Major GPA for honours classification.
- 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. For details, please refer to the Department for information.
- 4. Students are advised to take some courses of the University Core Requirements or Major courses in summer sessions to reduce their course load in regular terms.
- [a] For students who have obtained Level 3 or above in HKDSE Physics or Combined Science with Physics component or equivalent.
- [b] For students who have obtained Level 2 or below in HKDSE Physics or Combined Science with Physics component or equivalent.
- [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 IERG4998 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 5 above (excluding item 4(b) Research Component Courses) to fulfill the elective requirements of the ELITE Stream. A full list of ESTR courses is available at the ELITE website.
- [f] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000or 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 2nd degree programme

- 1. Admission to the second degree programme is guaranteed if students have:
 - i. fulfilled all graduation requirements of the first degree programme;
 - ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and
 - iii. taken at least a reasonable number of units (30 units as mutually agreed by both the Engineering and Business Administration Faculties) of courses prescribed by the second degree programme and have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. These second degree programme courses include the required language courses and the mutually recognized courses of the double degree programme.

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 of this double degree programme can 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

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Studente ore	roguired to	aammilata a	minimiim	At 5 V 11	inita ot	COLLEGGG	a tollower
Students are	reammea ro	COHIDIEIE A		01 10 11		COHESES A	N IOIIOWN
Diadellis ale	required to	compice a	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01 50 4	111100 01	courses a	o iono wo.

1.	Faculty Package: DSME1030, 1040, MGNT1020	9
2.	Required Courses: ACCT2111, 2121, 3151, DSME2011, 2030, 2051, FINA2010, MGNT2510, 3010, 4010, MKTG2010	34
3.	Elective Courses (Concentration): Students must choose at least one concentration and take five courses among the courses prescribed under each concentration area as follows:	15
(-)	Desires Especies	

- (a) Business Economics
 DSME2021, one from any concentration area and three courses selected from: DSME3030, 3040, 3050, 3070, 3080, 3090, 4040, 4050, 4080, 4090, 4110
- (b) Management Information Systems
 DSME2021, and four courses selected from: DSME4020, 4030, 4070, 4120, 4140, 4160, 4180, 4200, 4220, 4230, 4240, 4280
- (c) Supply Chain and Logistics Management DSME2021, one from any concentration area and three courses selected from: DSME4020, 4070, 4170, 4180, 4190, 4240, 4260, 4270
- (d) General Decision Sciences and Managerial Economics DSME2021, one from any concentration area and three courses selected from: DSME3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280
- (e) General Finance
 DSME2021, and 12 units of FINA courses at 3000 or above level,
 with no more than three 1-unit FINA courses
- (f) Financial Engineering DSME2021, and four courses selected from: FINA3220, 4110, 4120, 4130, 4140, 4150, 4160, 4190, 4210, 4220, 4250, 4260, 4370, 4380
- (g) Insurance and Risk Management
 DSME2021, FINA3210 and three courses selected from:
 FINA2210, 3080, 3230, 3240, 4230, 4240
- (h) Management of International Business

MGNT3580, MKTG3010 and three courses selected from: MGNT4120, 4140, 4150, 4510, 4520, 4530, 4540, 4550, 4570, 4600, 4610, 4620, 4630

- (i) Human Resource Management MGNT2040, MKTG3010 and three courses selected from: MGNT3040, 3060, 4050, 4060, 4080, 4110, 4130, 4140, 4620, 4630
- (j) Marketing
 MKTG3010, 4040 and three courses selected from: MKTG3020,
 3030, 3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4100,
 4110
- (k) Quantitative Marketing
 MKTG3010, 4090, 4120 and two courses selected from:
 MKTG4030, 4070, 4080, 4130, 4150
- (l) General Business
 DSME2021/MKTG3010 and 12 units of DSME/FINA/MGNT/
 MKTG courses at 3000 or above level, with no more than three
 1-unit FINA courses

Total: 58

Explanatory Notes:

- 1. Students who have completed the course HTMG2010 will be eligible to apply for exemption of 3 units of University Core English Language Requirement (ELTU2012).
 - 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.
- 2. ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111 and 2121) will be included in the calculation of Major GPA for honours classification.
- 3. Double concentrations (i) among the finance-related concentration areas (i.e. any combination of General Finance, Financial Engineering, Insurance and Risk Management), and (ii) in Marketing and Quantitative Marketing are not allowed.
- 4. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (g) and (l), except for the impermissible combination of concentrations as stipulated in Note 3 above.

 MKTG3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (h) to (l), except for the impermissible combination of concentrations as stipulated in Note 3 above.

Explanatory Notes on Mutual Recognition or Exclusion:

- 1. DSME2011 and the associated units can be exempted from the requirement of the second degree by successfully completing ENGG2430/ESTR2002.
- 2. DSME4140 and the associated units can be exempted from the requirement of the second degree by successfully completing IERG3310.

	1st degree: Bachelor of	Units	2 nd degree: Bachelor of	Units
	Engineering (Information Engineering)		Business Administration (Integrated BBA Programme)	
First Year of	1 st term		1 st term	
Attendance	Faculty Package: ENGG1100/	3	Faculty Package:	
	1110/ESTR1000/1002		Major Required:	
	Major Required: CHEM1070/ 1280/1380/LSCI1001, MATH1510, PHYS1110 (or 1003)	6-9	Major Elective(s):	
	Major Elective(s): 2 nd term		2 nd term	
	2 term		2 term	
	Faculty Package: ENGG1100/ 1110/ESTR1000/1002 Major Required: CHEM1070/ 1280/1380/LSCI1003, ENGG1410/ESTR1004, ENGG1310/2520/ESTR2006 (or PHYS1110)	3 6-9	Faculty Package: Major Required: Major Elective(s):	
	Major Elective(s):			
Second Year	1 st term		1 st term	
of Attendance				
	Major Required: CSCI2100/ ESTR2102, ENGG2420/ ESTR2000, IERG2051/ ESTR2302 Major Elective(s):	9	Faculty Package: DSME1030, MGNT1020 Major Required: Major Elective(s):	3-6
	2 nd term		2 nd term	
	Faculty Package:	3	Faculty Package: DSME1040,	3-6
	ENGG2600/ESTR2008 Major Required: ENGG2310/ ESTR2300, ENGG2430/ ESTR2002, IERG3820	7	MGNT1020 Major Required: Major Elective(s):	
Third Year of	Major Elective(s): 1 st term		1 st term	
Attendance				
Attenuance	Major Required: ELEG3230, IERG3810	4	Major Required: ACCT2111, DSME2011	7
	Major Elective(s): 1 course	3	Major Elective(s):	
	2 nd term		2 nd term	
	Major Required: IERG3080, 3310, 3921	8	Major Required: ACCT2121 Major Elective(s): 1 course	3 3
	Major Elective(s): 1 course	2-3	at .	
Fourth Year	1 st term		1 st term	
of Attendance	Major Required: IERG4998 Major Elective(s): 2 courses	3 6	Major Required: MKTG2010, FINA2010 Major Elective(s):	6
	2 nd term		2 nd term	

	Major Required: IERG4999	3	Major Required: DSME2030,	6
	Major Elective(s): 2 courses	6	2051	
			Major Elective(s):	
Fifth Year of			1 st term	
Attendance			Major Required: ACCT3151, MGNT2510, 3010, 4010 Major Elective(s):	12
			2 nd term	
			Major Required:	
			Major Elective(s): 4 courses	12
	Total (including Faculty	75-76	Total (including Faculty	58
	Package):		Package):	

Minor Programme Title Information Engineering

Minor Programme Requirement

Students are required to complete a minimum of 18 units of courses as follows:

Units

1. Required Courses: CSCI2100/ESTR2102, IERG3310

6

12

2. Elective Courses:

CSCI3150/ESTR3102, ENGG4030/ESTR4300, IERG3010/

ESTR3300, IERG3050, IERG3280/ESTR3302, IERG3300/ ESTR3304, IERG3320/ESTR3306, IERG4020/ESTR4318, IERG4030, IERG4080/ESTR4312, IERG4090/ESTR4302, IERG4100/ESTR4304, IERG4110/ESTR4314, IERG4130/ ESTR4306, IERG4160, IERG4180/ESTR4308, IERG4190, 4210, 4220, 4230, IERG4330/ESTR4316, IERG5040/ENGG5392, IERG5090, IERG5100/ENGG5303, IERG5140, IERG5154/

ENGG5301, IERG5200, IERG5240/ENGG5383, IERG5270, 5280, 5290, IERG5300/ENGG5302, IERG5310, 5320, 5330

Total: 18

Course List				
Course Code	Course Title	Unit(s)		
ENGG1310	Engineering Physics: Electromagnetics, Optics and Modern Physics	3		
ENGG1410	Linear Algebra and Vector Calculus for Engineers	3		
ENGG1820	Engineering Internship	1		
ENGG2310	Principles of Communication Systems	3		
ENGG2420	Complex Analysis and Differential Equations for Engineers	3		
ENGG2430	Probability and Statistics for Engineers	3		
ENGG2520	Engineering Physics II	3		
ENGG4030	Web-scale Information Analytics	3		

ENGG5302 Random Processes ENGG5303 Advanced Wireless Communications ENGG5303 Advanced Wireless Communications ENGG5303 Advanced Wireless Communications ENGG5304 Lightwave System Technologies ESTR1000 Linear Algebra and Vector Calculus for Engineers 3 ESTR2000 Complex Analysis and Differential Equations for Engineers 3 ESTR2000 Probability and Statistics for Engineers 3 ESTR2000 Engineering Physics II 3 ESTR2300 Principles of Communication Systems 3 ESTR2330 Principles of Communication Systems 3 ESTR3300 Digital Communications SESTR3301 Networks: Technology, Economics, and Social Interactions 3 ESTR3302 Networks: Technology, Economics, and Social Interactions 3 ESTR3303 Networks: Technology, Economics, and Social Interactions 3 ESTR4304 Networking Protocols and Systems 3 ESTR4306 Social Media and Human Information Interaction 3 ESTR4307 Networking Protocols and Systems 3 ESTR4308 Network Software Design and Programming 3 ESTR4309 Network Software Design and Programming 3 ESTR4300 Introduction to Cyber Security 3 ESTR4310 Building Scalable Internet-based Services 3 ESTR4311 Building Scalable Internet-based Services 3 ESTR4316 Programming Big Data Systems 3 ERG3050 Simulation and Statistical Analysis 1ERG3050 Simulation and Software Engineering Practice 1ERG3300 Introduction to Stochastic Processes 3 1ERG3300 Introduction to Stochastic Processes 3 1ERG3301 Introduction to Stochastic Processes 3 1ERG3302 Social Media and Human Information Interaction 3 1ERG3301 Introduction to Stochastic Processes 3 1ERG3300 Introduction to Stochastic Processes 3 1ERG3301 Introduction to Stochastic Processes 3 1ERG4000 Network Software Engineering Practice 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ENGG5301	Information Theory	3
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	IERG4831	Networking Laboratory I	2

IERG4841	Networking Laboratory II	2
IERG4998	Final Year Project I	3
IERG4999	Final Year Project II	3
IERG5040	Lightwave System Technologies	3
IERG5090	Advanced Networking Protocols and Systems	3
IERG5100	Advanced Wireless Communications	3
IERG5140	Lightwave Networks	3
IERG5154	Information Theory	3
IERG5200	Channel Coding and Modulation	3
IERG5240	Applied Cryptography	3
IERG5270	Advanced Topics in P2P Networks and Systems	3
IERG5280	Mobile Networking	3
IERG5290	Network Coding Theory	3
IERG5300	Random Processes	3
IERG5310	Security and Privacy in Cyber Systems	3
IERG5320	Digital Forensics	3
IERG5330	Network Economics	3