THE CHINESE UNIVERSITY OF HONG KONG Department of Information Engineering

Suggested Study Plan for Broad-based Entrants Admitted to CUHK in 2021

University Core Requirements	<u>s</u>
English	9
Chinese	6
Foundation GE	6
University GE	9
College GE	6
PE	2
IT	1 (exempted for course but not unit)
	39
Major Requirements	
Faculty Package	9
Foundation Courses	11
Major Required	29
Major Electives	20
Major FYP	6
	75
Free Electives	9

123 (Minimum unit requirement for graduation)

	Recommended Course Pattern	Units
First Year	1 st term	
of	Faculty Package: ENGG1110/ESTR1002	3
Attendance	Language: CHLT1100	3
	Major Required:	
	MATH1510	3
	Physical Education: 1 course	1
	College General Education: 1 course	3
	Term total	13
	2 nd term	
	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006	6
	Language: ELTU1001	4
	Major Required:	
	Any one from AIST1110, CHEM1280, 1380, CSCI1120/ESTR1100,	2-3
	CSCI1130/ESTR1102, ELEG2700, ENGG1310/ESTR1003#,	23
	ENGG2720/ESTR2014, ENGG2740/ESTR2016, ENGG2780/ESTR2020,	
	FTEC2101/ESTR2520, LSCI1001, 1003, MAEG1020, PHYS1003#,	
	1110#, SEEM2440/ESTR2500, SEEM2460/ESTR2540	
	Physical Education: 1 course	1
	General Education: UGFH/UGFN (1 course)	3
	Term total	16-17

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

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⁽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 ENGG1310/ESTR1003 or PHYS1110.

⁽ii) Students with HKDSE results but did not attain the academic levels as stated in (i) shall take PHYS1003.

⁽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 ENGG1310/ESTR1003 or PHYS1110. Students who fail or are absent from the placement test shall take PHYS1003.

Second Year	1 st term		
of Attendance	Language: CHLT1200	3	
	Major Required:		
	ENGG2440/ESTR2004	3	
	IERG1810	1 3	
	IERG2051/ESTR2302		
	IERG2060/ESTR2304		
	IERG2080/ESTR2306		
	General Education: UGFH/UGFN (1 course) †		
	Term total		
	2 nd term		
	Language: ELTU2014	3	
	Major Required:		
	CSCI2100/ESTR2102	3	
	IERG2310/ESTR2300	3	
	IERG2470/ESTR2308	3	
	IERG2602	1	
	IERG3820	1	
	General Education: UGE (1 course)	3	
	Term total	17	
Third Year of	1 st term		
Attendance	Major Required:		
	IERG3080/ESTR3308	3	
	IERG3310/ESTR3310	3	
	IERG3800	1	
	Major Elective(s): 1 course	2-3	
	General Education: UGE (1 course)	3	
	Free Elective(s): 1 course	3	
	Term total	15-16	
	2 nd term		
	Language: ELTU3014	2	
	Major Required:	_	
	IERG3060	3	
	IERG3810	1	
	Major Elective(s): 3 courses	9	
	General Education: UGE (1 course)	3	
	Term total	18	

[†] Students may take the Foundation General Education class in Summer Session.

Fourth Year of Attendance	1st term Major Required:	
of Attenuance	IERG4998/ESTR4998	3
	Major Elective(s): 2 courses	6
	College General Education: 1 course	
	2 nd term	
	Major Required:	
IERG4999/ESTR4999		3
	Major Elective(s): 1 course	3
	Free Elective(s): 2 courses	6
	Term total	12
Faculty Package + Major Required		75
University Core Requirement		39
Free Electives		9
	Minimum unit requirement for graduation	123

Course List

(Note: For quick reference of the courses appeared on the study plan(s). Please refer to CUSIS for course information)

AIST1110 Introduction to Computing using Python CHEM1280 Introduction to Organic Chemistry and Biomolecules 3 CHEM1380 Basic Chemistry for Engineers 3 CHLT1100 University Chinese I 3 CHLT1100 University Chinese I 3 CSCI1120/ESTR1100 Introduction to Computing Using C++ 3 CSCI1130/ESTR1102 Introduction to Computing Using Java 3 CSCI1130/ESTR2102 Data Structures 3 CSCI2100/ESTR2102 Introduction to Operating Systems ELEG2700 Introduction to Electronic System Design 3 ELTU1001 Foundation English for University Studies 4 ELTU2014 English for Engineering I 2 ENGG1110/ESTR1002 Problem Solving by Programming 3 ENGG1120/ESTR1005 Linear Algebra for Engineers 3 ENGG1130/ESTR1006 Multivariable Calculus for Engineers 3 ENGG1310/ESTR1003 Engineering Physics: Electromagnetics, Optics and Modern Physics ENGG2470/ESTR2014 Complex Variables for Engineers 3 ENGG2770/ESTR2014 Complex Variables for Engineers 2 ENGG2780/ESTR2014 Complex Variables for Engineers 2 ENGG2780/ESTR2016 Differential Equations for Engineers 2 ENGG301 Information Theory 3 ENGG5302 Random Processes 3 ENGG5303 Advanced Wireless Communications 3 ENGG5392 Lightwave System Technologies
CHEM1380Basic Chemistry for Engineers3CHLT1100University Chinese I3CHLT1200University Chinese II3CSCI1120/ESTR1100Introduction to Computing Using C++3CSCI1130/ESTR1102Introduction to Computing Using Java3CSC12100/ESTR2102Data Structures3CSC13150/ESTR3102Introduction to Operating Systems3ELEG2700Introduction to Electronic System Design3ELTU1001Foundation English for University Studies4ELTU2014English for Engineering I3ELTU3014English for Engineering II2ENGG1110/ESTR1002Problem Solving by Programming3ENGG1120/ESTR1005Linear Algebra for Engineers3ENGG130/ESTR1006Multivariable Calculus for Engineers3ENGG130/ESTR1003Engineering Physics: Electromagnetics, Optics and Modern Physics3ENGG2440/ESTR2004Discrete Mathematics for Engineers3ENGG2470/ESTR2012Probability for Engineers3ENGG2770/ESTR2014Complex Variables for Engineers2ENGG2780/ESTR2020Statistics for Engineers2ENGG5301Information Theory3ENGG5303Advanced Wireless Communications3ENGG5303Advanced Wireless Communications3ENGG5383Applied Cryptography3
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IERG1810 Electronic Circuit Design Laboratory 1
IERG2051/ESTR2302 Signals and Systems 3
IERG2060/ESTR2304 Basic Analog and Digital Circuits 3
IERG2080/ESTR2306 Introduction to Systems Programming 3
IERG2310/ESTR2300 Principles of Communication Systems 3
IERG2470/ESTR2308 Probability Models and Applications 3
IERG2602 Engineering Practicum 1
IERG3010/ESTR3300 Digital Communications 3
IERG3050 Simulation and Statistical Analysis 3
IERG3060 Microcontrollers and Embedded Systems 3
IERG3080/ESTR3308 Information and Software Engineering Practice 3
IERG3280/ESTR3302 Networks: Technology, Economics, and Social 3
Interactions
IERG3300/ESTR3304 Introduction to Stochastic Processes 3
IERG3310/ESTR3310 Computer Networks 3
IERG3320/ESTR3306 Social Media and Human Information Interaction 3
IERG3800 Information Infrastructure Design Lab
IERG3810 Microcontrollers and Embedded System Laboratory 1
IERG3820 Communications Laboratory 1

Course Code	Course Title	Unit(s)
IERG3830	Product Design and Development	3
IERG4004	E-payment Systems and Cryptocurrency Technologies	3
IERG4030/ESTR4320	Optical Communications	3
IERG4080/ESTR4312	Building Scalable Internet-based Services	3
IERG4090/ESTR4302	Networking Protocols and Systems	3
IERG4100/ESTR4304	Wireless Communication Systems	3
IERG4110/ESTR4314	Hands-on Wireless Communication	3
IERG4130/ESTR4306	Introduction to Cyber Security	3
IERG4150/ESTR4322	Introduction to Cryptography	3
IERG4160	Image and Video Processing	3
IERG4180/ESTR4308	Network Software Design and Programming	3
IERG4190	Multimedia Coding and Processing	3
IERG4210	Web Programming and Security	3
IERG4220	Secure Software Engineering	3
IERG4230	Introduction to Internet of Things	3
IERG4300/ESTR4300	Web-scale Information Analytics	3
IERG4330/ESTR4316	Programming Big Data Systems	3
IERG4340	Emerging Technologies in Information Engineering	3
IERG4350	Cloud Computing Security	3
IERG4831	Networking Laboratory I	2
IERG4841	Networking Laboratory II	2
IERG4998/ESTR4998	Final Year Project I	3
IERG4999/ESTR4999	Final Year Project II	3
IERG5020	Telecommunication Switching and Network Systems	3
IERG5040	Lightwave System Technologies	3
IERG5090	Advanced Networking Protocols and Systems	3
IERG5100	Advanced Wireless Communications	3
IERG5130	Probabilistic Models and Inference Algorithms for	3
ILKG3130	Machine Learning	3
IERG5140	Lightwave Networks	3
IERG5154	Information Theory	3
IERG5200	Channel Coding and Modulation	3
IERG5230	Algorithms and Realization of Internet of Things Systems	3
IERG5240	Applied Cryptography	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
IERG5340	IT Innovation and Entrepreneurship	3
IERG5350	Reinforcement Learning	3
IERG5590	Advanced Topics in Blockchain	3
LSCI1001	Basic Concepts in Biological Sciences	3
LSCI1001 LSCI1003	Life Sciences for Engineers	3
MAEG1020	Computational Design and Fabrication	3
MATH1510	Calculus for Engineers	3
PHYS1003	General Physics for Engineers	3
PHYS1110	Engineering Physics: Mechanics and Thermodynamics	3
SEEM2440/ESTR2500	Engineering Physics: Mechanics and Thermodynamics Engineering Economics	3
SEEM2460/ESTR2540	Introduction to Data Science	3
UGFH1000/	University General Education Foundation Course	3
UGFN1000/ UGFN1000	Oniversity General Education Foundation Course	3
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