THE CHINESE UNIVERSITY OF HONG KONG

Interdisciplinary Data Analytics & X Double Major Programme

<u>Lists of Equivalence / Substitution of Courses between CUHK and CUHK(SZ)</u> <u>Applicable to students admitted in 2025-26</u>

(for students admitted by CUHK)

Note:

Equivalence / Substitution of two courses is not transitive. If Courses A and B are equivalent / substitute, and A and C are also equivalent / substitute, it does not necessarily follow that B and C are equivalent / substitute. Nonetheless, students should not take both courses B and C.

Faculty Package

Courses offered by CUHK		Courses offered by CUHK(SZ)	
DOTE1030	Economics for Business	ECO2011	Basic Microeconomics
	Studies I		
ENGG1110	Problem Solving by	CSC1001/1003	Introduction to Computer
	Programming		Science: Programming
			Methodology/_Introduction to
			Computer Science and Java
			Programming
MATH1010	University Mathematics	MAT1001	Calculus I

1st Major: Interdisciplinary Data Analytics – Required Courses/Research Component

Courses offered by CUHK		Courses offered by CUHK(SZ)	
DOTE1040	Economics for Business	ECO2021	Basic Macroeconomics
	Studies II		
ENGG2440	Discrete Mathematics for	CSC3001	Discrete Mathematics
	Engineers		
MATH1030	Linear Algebra I	MAT2040	Linear Algebra
MGNT1020	Management	MGT2020	Principles of Management
STAT2001	Basic Concepts in Statistics	STA2001/	Probability and Statistics I/
	and Probability I	STA2001H	Honours Probability and
			Statistics I
SEEM2460	Introduction to Data Science	DDA2001	Introduction to Data Science

1st Major: Interdisciplinary Data Analytics – Elective Courses (covering all areas)

Please refer to the study scheme for the elective courses specific to each area of study.

Courses offered by CUHK	Courses offered by CUHK(SZ)

CSCI1120	Introduction to Computing Using C++	CSC3002	C/C++ Programming
CSCI2100	Data Structures	CSC3100	Data Structures
CSCI3160	Design and Analysis of Algorithms	CSC4120	Design and Analysis of Algorithms
CSCI3230	Fundamentals of Artificial Intelligence	ECE4010	Machine Intelligence and Applications
CSCI3320	Fundamentals of Machine Learning	DDA3020	Machine Learning
CSCI4250	Online Algorithms for Machine Learning and Optimization	DDA4230	Reinforcement Learning
DOTE4280	Network and Security	ECE4007	Computer and Network Security
ELEG2201	Digital Circuits and Computing Systems	ECE2050	Digital Logic and Systems
FINA3080	Investment Analysis and Portfolio Management	FIN3080	Investment Analysis and Portfolio Management
FINA4110	Options and Futures	FIN4110	Options and Futures
FINA4120	Fixed Income Securities Analysis	FIN4120	Fixed Income Securities Analysis
IERG2051	Signals and Systems	ECE3001	Signals and Systems
IERG2310	Principles of Communication Systems	ECE3050	Principles of Communication Systems
IERG3080	Information and Software Engineering Practice	CSC4001	Software Engineering
IERG3280	Networks: Technology, Economics, and Social Interactions	ECE3280	Networks: Technology, Economics and Society
IERG3310	Computer Networks	ECE4016	Computer Networks
IERG3320	Social Media and Human Information Interaction	ECE4300	Systems Design in Human- Computer Interaction
IERG4230	Introduction to Internet of Things	CSC4150	Mobile Computing with Internet of Things
IERG4300	Web-scale Information Analytics	ERG3020	Web Analytics and Intelligence
MATH2010	Advanced Calculus I	MAT1002	Calculus II
MATH3215	Operations Research	MAT3007	Optimization
MATH3230	Numerical Analysis	MAT4001	Numerical Analysis
MATH3240	Numerical Methods for	MAT4240	Numerical Methods for
	Differential Equations		Differential Equations
MATH3270	Ordinary Differential	MAT2001	Honours Ordinary Differential
	Equations		Equations
MATH3280	Introductory Probability	MAT3280	Probability Theory
MATH3290	Mathematical Modeling	MAT3300	Mathematical Modeling

MATH4240 Stochastic Processes STA4001 Stochastic Processes MGNT3010 Organizational Behavior MGT3010 Organizational Behavior MKTG3010 Marketing Research MKT4120 Marketing Research MKTG3020 Consumer Behaviour MKT3020 Consumer Behavior MKTG3030 Integrated Marketing MKT3030 Integrated Marketing MKTG3060 Big Data Strategy in Marketing MKT4220 Big Data Marketing MKTG40400 Strategic Marketing MKT4030 Service Marketing MKT64040 Strategic Marketing MKT4040 Strategic Marketing RMSC4003 Statistical Modelling in Financial Markets Statistical Modelling in Financial Markets SEEM3430 Information Systems Analysis and Design CSC4001 Risk Management with Derivatives SEEM4630 E-Commerce Data Mining CSC4008 Techniques for Data Mining SEEM4730 Statistics Modeling and Analysis in Financial Engineering STA4020 Statistical Modelling in Financial Markets SEEM4750 Advances in Logistics and Supply Chain Management MGT4270 Current and Regional Issues in Suppl	MATH3320	Equadation of Data Analytics	DDA3020	Machina Lagmina
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	STAT4005	Time Series	STA4003	Time Series

2nd Major: IBBA (offered by CUHK)

Courses offered by CUHK		Courses offered by CUHK(SZ)	
ACCT2111	Introductory Financial	ACT2111	Introductory Financial
	Accounting		Accounting
ACCT2121	Introductory Management	ACT2121	Introductory Management
	Accounting		Accounting

DOTE2030	Operations Management	DMS2030	Operations Management
DOTE4280	Network and Security	ECE4007	Computer and Network Security
FINA2010	Financial Management	FIN2010	Financial Management
FINA3080	Investment Analysis and	FIN3080	Investment Analysis and
	Portfolio Management		Portfolio Management
FINA4110	Options and Futures	FIN4110	Options and Futures
FINA4120	Fixed Income Securities	FIN4120	Fixed Income Securities
	Analysis		Analysis
MGNT3010	Organizational Behavior	MGT3010	Organizational Behavior
MKTG2010	Marketing Management	MKT2010	Marketing Management
MKTG3010	Marketing Research	MKT4120	Marketing Research
MKTG3030	Integrated Marketing	MKT3030	Integrated Marketing
	Communication		Communication
MKTG4040	Strategic Marketing	MKT4040	Strategic Marketing

2nd Major: Information Engineering (offered by CUHK)

Courses offered by CUHK		Courses offered by CUHK(SZ)	
CSCI2100	Data Structures	CSC3100	Data Structures
CSCI3160	Design and Analysis of	CSC4120	Design and Analysis of
	Algorithms		Algorithms
IERG2051	Signals and Systems	ECE3001	Signals and Systems
IERG2310	Principles of Communication	ECE3050	Principles of Communication
	Systems		Systems
IERG3010	Digital Communications	ECE4002	Digital Communications
IERG3060	Microcontrollers and	ECE3080	Microprocessors and Computer
	Embedded Systems		Systems
IERG3080	Information and Software	CSC4001	Software Engineering
	Engineering Practice		
IERG3280	Networks: Technology,	ECE3280	Networks: Technology,
	Economics, and Social		Economics and Society
	Interactions		
IERG3310	Computer Networks	ECE4016	Computer Networks
IERG3320	Social Media and Human	ECE4300	Systems Design in Human-
	Information Interaction		Computer Interaction
IERG3810	Microcontrollers and	ECE3810	Embedded Systems Laboratory
	Embedded Systems Laboratory		
IERG4030	Optical Communications	ECE4004	Introduction to Optical
			Communications
IERG4100	Wireless Communication	ECE4003	Wireless Communication
	Systems		Systems
IERG4150	Introduction to Cryptography	MAT4007	Introduction to Cryptography
IERG4160	Image Processing and Visual	ECE4512	Digital Image Processing
	Understanding		

IERG4180	Network Software Design and	ECE4180	Network Software Design and
	Programming		Programming
IERG4190	Multimedia Coding and	ECE4190	Multimedia Coding and
	Processing		Networking
IERG4230	Introduction to Internet of	CSC4150	Mobile Computing with Internet
	Things		of Things
IERG4300	Web-scale Information	ERG3020	Web Analytics and Intelligence
	Analytics		

2nd Major: Systems Engineering and Engineering Management (offered by CUHK)

Courses offered by CUHK		Courses offered by CUHK(SZ)	
CSCI1130	Introduction to Computing	CSC1003	Introduction to Computer
	Using Java		Science and Java Programming
CSCI2100	Data Structures	CSC3100	Data Structures
ENGG1130	Multivariable Calculus for	MAT1002	Calculus II
	Engineers		
SEEM2420	Operations Research I	MAT3007	Optimization
SEEM3410	System Simulation	DDA4002	Stochastic Simulation
SEEM3440	Operations Research II	MAT3220	Optimization II
SEEM3550	Fundamentals in Information	CSC3170	Database System
	Systems		,

2nd Major: Mathematics (offered by CUHK)

Cou	arses offered by CUHK	Cour	ses offered by CUHK(SZ)
MATH2010	Advanced Calculus I	MAT1002	Calculus II
MATH2040	Linear Algebra II	MAT3040	Advanced Linear Algebra
MATH2050	Mathematical Analysis I	MAT2050	Mathematical Analysis
MATH2230	Complex Variables with	MAT3253	Complex Variables
	Applications		
MATH3070	Introduction to Topology	MAT4002	Introduction to Geometry and
			Topology
MATH3080	Number Theory	MAT4003	Number Theory
MATH3093	Fourier Analysis	MAT3093	Fourier Analysis
MATH3230	Numerical Analysis	MAT4001	Numerical Analysis
MATH3260	Graph Theory	MAT4004	Graph Theory
MATH3280	Introductory Probability	MAT3280	Probability Theory
MATH3290	Mathematical Modelling	MAT3300	Mathematical Modelling
MATH4010	Functional Analysis	MAT4010	Functional Analysis
MATH4030	Differential Geometry	MAT4033	Differential Geometry
MATH4050	Real Analysis	MAT3006	Real Analysis
MATH4220	Partial Differential Equations	MAT4220	Partial Differential Equation

2nd Major: Statistics (offered by CUHK)

Cou	Courses offered by CUHK		Courses offered by CUHK(SZ)	
CSCI2520	Data Structures and	CSC3100	Data Structures	
	Applications			
RMSC4007	Risk Management with	RMS4060	Risk Management with	
	Derivatives Concepts		Derivatives	
STAT2006	Basic Concepts in Statistics	STA2002/	Probability and Statistics II/	
	and Probability II	2002H	Honours Probability and	
			Statistics II	
STAT3003	Survey Methods	STA3030	Survey Sampling	
STAT3007	Introduction to Stochastic	STA4001	Stochastic Processes	
	Processes			
STAT3008	Applied Regression Analysis	STA3001	Linear Models	
STAT4003	Statistical Inference	STA3020	Statistical Inference	
STAT4010	Bayesian Learning	DDA4010	Bayesian Statistics	
STAT4011	Statistics Projects	STA4050	Statistical Capstone	
STAT4012	Statistical Principles of Deep	DDA4220	Deep Learning and Applications	
	Learning with Business			
	Applications			

2nd Major: Financial Engineering (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Courses offered by CUHK	
CSC3100	Data Structures	CSCI2100	Data Structures
CSC3150	Operating System	CSCI3150	Introduction to Operating
			Systems
CSC3180	Fundamentals of Artificial	CSCI3230	Fundamentals of Artificial
	Intelligence		Intelligence
DDA3020	Machine Learning	STAT4001	Data Mining and Statistical
			Learning
ECE4007	Computer and Network	IERG4130	Introduction to Cyber Security
	Security		
ERG3020	Web Analytics and Intelligence	IERG4300	Web-scale Information
			Analytics
FIN2010	Financial Management	FINA2010	Financial Management
FIN3080	Investment Analysis and	FINA3080	Investment Analysis and
	Portfolio Management		Portfolio Management
FIN4060	Financial Markets in China and	FINA3010	Financial Markets
	the World		
FIN4080	Behavioral Finance	FINA4400	Behavioral Finance
FIN4110	Options and Futures	FINA4110	Options and Futures
FIN4120	Fixed Income Securities	FINA4120	Fixed Income Securities
	Analysis		Analysis
FMA4800	Financial Computation	SEEM4720	Computational Finance

FTE2001	FinTech Regulation and Legal	FTEC2001	FinTech Regulation and Legal
	Policy		Policy
FTE4003	Data Mining for FinTech	FTEC4003	Data Mining for FinTech
MAT3007	Optimization	MATH3215	Operations Research
MAT3280	Probability Theory	MATH3280	Introductory Probability
MKT4220	Big Data Marketing	MKTG3060	Big Data Strategy in Marketing
RMS4060	Risk Management with	SEEM3580	Risk Analysis for Financial
	Derivatives		Engineering
RMS4060	Risk Management with	RMSC4007	Risk Management with
	Derivatives		Derivatives Concepts
STA2002/2	Probability and Statistics II/	STAT2006	Basic Concepts in Statistics and
002H	Honours Probability and		Probability II
	Statistics II		
STA4001	Stochastic Processes	MATH4240	Stochastic Processes
STA4003	Time Series	STAT4005	Time Series

2nd Major: Marketing and Communication (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Co	urses offered by CUHK
ACT2111	Introductory Financial	ACCT2111	Introductory Financial
	Accounting		Accounting
FIN2010	Financial Management	FINA2010	Financial Management
MGT3010	Organizational Behavior	MGNT3010	Organizational Behaviour
MGT4187	Managerial Analytics	MGNT3080	Analytics for Management
MKT2010	Marketing Management	MKTG2010	Marketing Management
MKT3020	Consumer Behavior	MKTG3020	Consumer Behaviour
MKT3030	Integrated Marketing	MKTG3030	Integrated Marketing
	Communication		Communication
MKT3310	Marketing Analytics	MKTG4090	Marketing Analytics
MKT4020	e-tailing and Retailing	MKTG4020	Retail and Channel Management
MKT4030	Service Marketing	MKTG4030	Service Marketing
MKT4040	Strategic Marketing	MKTG4040	Strategic Marketing
MKT4080	Digital and Social Media	MKTG4180	Social Media Analytics
	Marketing Strategy		
MKT4110	Strategic Brand Management	MKTG4110	Strategic Brand Management
MKT4120	Marketing Research	MKTG3010	Marketing Research
MKT4150	Pricing Strategy	MKTG4160	Pricing
MKT4220	Big Data Marketing	MKTG3060	Big Data Strategy in Marketing

2nd Major: Computer Science and Engineering (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Co	Courses offered by CUHK	
CSC2003	Introduction to Java	CSCI1530	Computer Principles and Java	
	Programming		Programming	

CSC3002	C/C++ Programming	CSCI1120	Introduction to Computing
	-		Using C++
CSC3050	Computer Architecture	AIST3020	Introduction to Computer
			Systems
CSC3150	Operating System	CSCI3150	Introduction to Operating
			Systems
CSC3180	Fundamentals of Artificial	CSCI3230	Fundamentals of Artificial
	Intelligence		Intelligence
CSC3185	Introduction to Multimedia	SEEM4570	System Design and
	Systems		Implementation
CSC4005	Parallel Programming	CSCI4160	Distributed and Parallel
			Computing
CSC4130	Introduction to Human-	SEEM3510	Human-computer Interaction
	Computer Interaction		
CSC4140	Computer Graphics	CSCI3260	Principles of Computer Graphics
CSC4150	Mobile Computing with	IERG4230	Introduction to Internet of
	Internet of Things		Things
CSC4051	Computing Capstone for	SEEM4998	Final Year Project I
	Interdisciplinary Studies		
DDA4220	Deep Learning and	AIST4010	Foundation of Applied Deep
	Applications		Learning
ECE2050	Digital Logic and Systems	ELEG2201	Digital Circuits and Computing
			Systems
ECE3080	Introduction to Embedded	IERG3060	Microcontrollers and Embedded
	Systems		Systems
ECE4016	Computer Networks	IERG3310	Computer Networks
MAT1002	Calculus II	MATH2010	Advanced Calculus I

2nd Major: Electrical and Computer Engineering (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Co	Courses offered by CUHK	
CSC3002	C/C++ Programming	CSCI1120	Introduction to Computing	
			Using C++	
CSC3100	Data Structures	CSCI2100	Data Structure	
CSC3150	Operating Systems	CSCI3150	Introduction to Operating	
			Systems	
CSC3180	Fundamentals of Artificial	CSCI3230	Fundamentals of Artificial	
	Intelligence		Intelligence	
CSC4001	Software Engineering	IERG3080	Information and Software	
			Engineering Practice	
CSC4005	Parallel Programming	CSCI4160	Distributed and Parallel	
			Computing	
DDA3020	Machine Learning	CSCI3320	Fundamentals of Machine	
			Learning	

ECE1810	Electronic Circuit Design Laboratory	IERG1810	Electronic Circuit Design Laboratory
ECE2001	Basic Circuit Theory	IERG2060	Basic Analog and Digital Circuits
ECE2050	Digital Logic and Systems	ELEG2201	Digital Circuits and Computing Systems
ECE3001	Signals and Systems	IERG2051	Signal and Systems
ECE3050	Principles of Communication	IERG2310	Principles of Communication
	Systems		Systems
ECE3080	Microprocessors and Computer Systems	IERG3060	Microcontrollers and Embedded Systems
ECE3280	Networks: Technology,	IERG3280	Networks: Technology,
	Economics and Society		Economics, and Social
	_		Interactions
ECE3510	Digital Signal Processing	ELEG3503	Introduction to Digital Signal Processing
ECE3810	Embedded Systems Laboratory	IERG3810	Microcontrollers and Embedded
			Systems Laboratory
ECE4002	Digital Communications	IERG3010	Digital Communications
ECE4003	Wireless Communication	IERG4100	Wireless Communication
	Systems		Systems
ECE4004	Introduction to Optical Communications	IERG4030	Optical Communications
ECE4010	Machine Intelligence and	CSCI3230	Fundamentals of Artificial
	Applications		Intelligence
ECE4016	Computer Networks	IERG3310	Computer Networks
ECE4180	Network Software Design and	IERG4180	Network Software Design and
	Programming		Programming
ECE4190	Multimedia Coding and	IERG4190	Multimedia Coding and
	Networking		Processing
ECE4300	Systems Design in Human-	IERG3320	Social Media and Human
	Computer Interaction		Information Interaction
ECE4512	Digital Image Processing	IERG4160	Image Processing and Visual
			Understanding
MAT1002	Calculus II	MATH2010	Advanced Calculus I
MAT3007	Optimization	MATH3215	Operations Research
MAT4007	Introduction to Cryptography	IERG4150	Introduction to Cryptography
MAT4220	Partial Differential Equation	MATH4220	Partial Differential Equations
STA4001	Stochastic Processes	MATH4240	Stochastic Processes

2nd Major: Mathematics and Applied Mathematics (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Courses offered by CUHK	
FMA4800	Financial Computation	SEEM4720	Computational Finance
MAT1002	Calculus II	MATH2010	Advanced Calculus I

MAT2001	Honours Ordinary Differential	MATH3270	Ordinary Differential Equations
	Equation		
MAT2050	Mathematical Analysis	MATH2050	Mathematical Analysis I
MAT3006	Real Analysis	MATH4050	Real Analysis
MAT3007	Optimization	MATH3215	Operations Research
MAT3040	Advanced Linear Algebra	MATH2040	Linear Algebra II
MAT3253	Complex Variables	MATH2230	Complex Variables with
			Applications
MAT3280	Probability Theory	MATH3280	Introductory Probability
MAT3300	Mathematical Modeling	MATH3290	Mathematical Modeling
MAT4001	Numerical Analysis	MATH3230	Numerical Analysis
MAT4010	Functional Analysis	MATH4010	Functional Analysis
MAT4033	Differential Geometry	MATH4030	Differential Geometry
MAT4220	Partial Differential Equation	MATH4220	Partial Differential Equations
MAT4240	Numerical Methods for	MATH3240	Numerical Methods for
	Differential Equations		Differential Equations
MAT4400	Project	MATH4400	Project
STA4001	Stochastic Processes	MATH4240	Stochastic Processes

2nd Major: Statistics (offered by CUHK(SZ))

Courses offered by CUHK(SZ)		Courses offered by CUHK	
CSC3002	C/C++ Programming	CSCI1120	Introduction to Computing
			Using C++
CSC3100	Data Structures	CSCI2100	Data Structures
CSC4120	Design and Analysis of	CSCI3160	Design and Analysis of
	Algorithms		Algorithms
DDA4002	Stochastic Simulation	STAT3006	Statistical Computing
DDA4010	Bayesian Statistics	STAT4010	Bayesian Learning
DDA4210	Advanced Machine Learning	RMSC4002	Financial Data Analytics with
			Machine Learning
DDA4220	Deep Learning and	AIST4010	Foundation of Applied Deep
	Applications		Learning
DDA4230	Reinforcement Learning	CSC14250	Online Algorithms for Machine
			Learning and Optimization
DDA4250	Mathematical Introduction to	STAT4012	Statistical Principles of Deep
	Deep Learning		Learning with Business
			Applications
ECE2050	Digital Logic and Systems	ELEG2201	Digital Circuits and Computing
			System
MAT1002	Calculus II	MATH2010	Advanced Calculus I
MAT2050	Mathematical Analysis	MATH2050	Mathematical Analysis I
MAT3006	Real Analysis	MATH4050	Real Analysis
MAT3040	Advanced Linear Algebra	MATH2040	Linear Algebra II
MAT3280	Probability Theory	MATH3280	Introductory Probability

RMS4001	Simulation Methods for Risk	RMSC4001	Simulation Methods for Risk
	Management and Finance		Management Science and
			Finance
RMS4050	Stochastic Calculus for	RMSC4005	Stochastic Calculus for Finance
	Finance and Risk		and Risk
RMS4060	Risk Management with	SEEM3580	Risk Analysis for Financial
	Derivatives		Engineering
RMS4060	Risk Management with	RMSC4007	Risk Management with
	Derivatives		Derivatives Concepts
STA3007	Nonparametric Statistics	STAT3005	Nonparametric Statistics
STA4001	Stochastic Processes	MATH4240	Stochastic Processes
STA4002	Multivariate Statistical	STAT4002	Applied Multivariate Analysis
	Analysis		
STA4003	Time Series	STAT4005	Time Series
STA4005	Survival Modelling	STAT4008	Survival Modelling
STA4100	Statistical Inference II	STAT4003	Statistical Inference
STA4030	Categorical Data Analysis	STAT4006	Categorical Data Analysis
STA4050	Statistical Capstone	STAT4011	Statistics Projects