

INSTITUTE OF COLLABORATIVE INNOVATION

Master's Degree Programmes**Data Science**

Compulsory Courses		Credits
CISC7201	Introduction to Data Science Programming	3
CISC7204	Data Science and Data Visualization	3
CISC7203	Database and Data Mining Technologies	3
CISC7202	Tools for Machine Learning	3
Total Credits:		12

Specialization A--Artificial Intelligence Applications:*Choose 4 required elective courses from the following:*

Required Elective		Credits
CISC7013	Principles of Artificial Intelligence	3
CISC7018	Computer Vision and Pattern Recognition	3
CISC7019	Web Mining	3
CISC7021	Applied Natural Language Processing	3
CISC7022	Big Data Processing and Analysis	3
CISC7026	Introduction to Deep Learning	3
Total Credits:		12

Compulsory Courses		Credits
CISC7298	Project Report	6
Total Credits:		6
Grand Total:		30

Specialization B-- Marketing Analytics:

Compulsory Courses		Credits
MKTG7010	Marketing Management	3
MKTG7030	Consumer Behavior	3
MKTG7033	Marketing Analytics	3
BAGC7011	Research Methods	3
BAGC7898	Project Report	6
Total Credits:		18
Grand Total:		30

Specialization C -- Financial Technology:*Choose 2 required elective courses from the following:*

Required Elective		Credits
FINC7010	Corporate Finance	3

FINC7026	International Banking and Bank Management	3
FINC7035	Financial Risk Management	3
ACCT7060	Financial Statement Analysis for Decision Making	3
BECO7010	Statistics and Financial Econometrics	3
Total Credits:		6

Compulsory Courses

FINC7060	Topics in Data Analytics and Financial Technology	3
FINC7054	Introduction to Modern Financial Technology	3
BAGC7898	Project Report	6
Total Credits:		12
Grand Total:		30

Specialization D -- Data Strategy and Compliance:

Compulsory Courses

Credits

LAWS7701	Data Applications and Regulation in Digital Society	3
LAWS7702	Big Data Analytics and Compliance in E-business	3
LAWS7703	Data Strategy and Protection in Healthcare and E-governance	3
LAWS7704	Artificial Intelligence and Comparative Law	3
LAWS7798	Project Report	6
Total Credits:		18
Grand Total:		30

Specialization E -- Precision Medicine:

Compulsory Courses

Credits

HSCI7002	Biomedical Sciences	3
HSCI7003	Digital Bio-medicine	3
HSCI7004	Healthcare Analytics	3
HSCI7001	Artificial Intelligence in Medicine	3
HSCI7998	Project Report	6
Total Credits:		18
Grand Total:		30

Specialization F -- Computational Linguistics:

Choose 3 required elective courses from the following:

Required Elective

Credits

CISC7021	Applied Natural Language Processing	3
ENGL7022	Corpus Linguistics	3
AHGC7039	Computer-aided Translation	3
AHGC7303	Evaluation and Assessment of Language Use	3
CHLL7101	Methods in Chinese Linguistics	3
AHGC7308	Special Topics in Applied Linguistics I	3
PHIL7101	Topics in Semantics	3

Total Credits:	9
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Compulsory Courses

AHGC7315	Language and Linguistics	3
AHGC7398	Project Report	6

Total Credits:	9
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Grand Total:	30
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Specialization G -- Analytics in Teaching and Learning:

Choose 4 required elective courses from the following:

Required Elective	Credits	
EDUC7041	Assessment and Evaluation of Educational Big Data	3
EDUC7042	Data-driven Approach to Educational Administration	3
EDUC7043	Learning Enhancement with Big Data	3
EDUC7044	Quantitative Social Science Research with Big Data	3
SSGC7201	Civic Data Acquisition and Analysis	3
Total Credits:	12	

Compulsory Courses

EDUC7098	Project Report	6
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Total Credits:	6
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Grand Total:	30
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Specialization H – Smart Governance:

Choose 4 required elective courses from the following:

Required Elective	Credits	
SSGC7201	Civic Data Acquisition and Analysis	3
SSGC7202	Big Data and Smart Governance	3
SSGC7203	Analysis of Media and Opinion Data	3
SSGC7204	Making Sense of Smart Governance	3
EDUC7044	Quantitative Social Science Research with Big Data	3
Total Credits:	12	

Compulsory Courses

SSGC7298	Project Report	6
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Total Credits:	6
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Grand Total:	30
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