

UNIVERSITY COURSES FOR THE GENERALIST CREDENTIAL

UNIVERSITY

PATHWAY

COURSES



Set of Classes through CMSC

Required:

STAT 400	Applied Probability and Statistics I
CMSC 250	Discrete Structures
CMSC 320	Introduction to Data Science
CMSC 330	Organization of Programming Languages

Choose one of the following:

CMSC 351	Algorithms
CMSC 420	Advanced Data Structures

Choose one of the following:

CMSC 414	Computer and Network Security
CMSC 456	Cryptography

Choose one of the following*:

CMSC 421	Introduction to Artificial Intelligence
CMSC 422	Introduction to Machine Learning

Choose one of the following*:

CMSC 435	Software Engineering
CMSC 424	Database Design

Choose one of the following:


CMSC 427	Computer Graphics
CMSC 434	Introduction to Human-Computer Interaction
CMSC 498O	Introduction to Data Science I: Preparing, Storing, and Manipulating Data

Choose one of the following:

INST 366	Privacy, Security, and Ethics for Big Data
edX Module	Data Security

*Students only need to complete either CMSC 421 & CMSC 422 or CMSC 435 & 424.

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		Choose one of the following:
	Set of Classes through GEOG	GEOG 306 Introduction to Quantitative Methods for the Geographical Environmental Sciences
		GEOG 373 Geographic Information Systems
		GEOG 498N Topical Investigations: Spatial Data Mining
		Choose one of the following:
		INST 366 Privacy, Security, and Ethics for Big Data
		edX Module Data Security
		Required:
		GVPT 201 Scope & Methods of Political Science Research
		GVPT 320 Advanced Empirical Research
		Choose one of the following:
		INST 366 Privacy, Security, and Ethics for Big Data
		edX Module Data Security
		Required:
		INST 366 Privacy, Security, and Ethics for Big Data
		INST 462 Data Visualization
		INST 314 Statistics for Information Science
		INST 346 Technologies, Architecture, and Infrastructure