

The Human-Centered Data Science Certificate-Completion Form

Name: _____ ID #: _____

Student must take two DS/CS Core courses, one from each of the following categories:

Algorithms

CRSE #	Title	Yr/Sem	Grade	Instructor
CSE 582	Computer Science Fundamentals: Data			
	Structures and Algorithms			
AMS				
542/CSE	Analysis of Algorithms			
548				
AMS				
561/DCS	Introduction to Computational and Data			
521	Science			

Machine Learning

CRSE #	Title	Yr/Sem	Grade	Instructor
AMS 580	Statistical Learning			
AMS 520	Machine Learning in Quantitative Finance			
CSE 512	Machine Learning			

Student must take two electives. At least one must be outside of the student's home department and not cross-listed.

CRSE #	Title	Yr/Sem	Grade	Instructor
AFS 502	Mixed Methods in Social/Behavioral Research			
AFS 533	Race, Gender, and Globalization			
*CSE 564	Visualization			
ECO 522	Introduction to Labor Economics			
ECO 612	Dynamic Macroeconomic Modeling			
ECO 640	Labor Economics			
*ISE 503	Data Management			
LIN 521	Syntax I			
LIN 523	Phonology I			
LIN 637	Computational Linguistics 2			
NEU 534	Principles of Neurobiology			
NEU 536	Introduction to Computational Neuroscience			

Neurotransmission and Neuromodulation	
Introduction to Neural Computation	
Social Influence and Group Processes in	
Political Decision Making	
Advanced Topics: Methods 1	
Meta Analysis	
Attention	
Psycholinguistics	
Prejudice and Discrimination	
Bayesian Analysis	
Logic and Practice of Sociology	
Political Sociology	
Cultural Sociology	
	Introduction to Neural ComputationImage: ComputationSocial Influence and Group Processes in Political Decision MakingImage: ComputationAdvanced Topics: Methods 1Image: ComputationMeta AnalysisImage: ComputationAttentionImage: ComputationPsycholinguisticsImage: ComputationPrejudice and DiscriminationImage: ComputationBayesian AnalysisImage: ComputationLogic and Practice of SociologyImage: ComputationPolitical SociologyImage: Computation

*Non-CS students only

Non-listed electives may be used to satisfy the electives requirement with prior permission of the certificate program's director.

List additional elective courses below:

CRSE #	Title	Yr/Sem	Grade	Instructor

In addition to the 12-credits, all students enrolled in the HCDS Certificate will have to complete the online Citi Training Module, "Human Research," (for 0 credits; students will receive a certificate of completion to document this requirement). <u>https://www.citiprogram.org/</u> Please attach the certificate of completion to this form.

Certificate Program Director Signature Susan E. Brennan Date

Coordinator Signature Kristen Kalb-DellaRatta Date