DS MINOR REQUIREMENTS

FOUNDATION AND CORE DATA SCIENCE

Pre-Minor Computing Experience	Data Science Foundations	Data Science Core Knowledge ☐ ☐ ☐
Students will need to complete one of the below __prior to declaring__ the DS Minor	*__Continue the sequence__ for route you selected and __choose at least one__ mathematics foundation course from the options below*	*Complete __at least three__ of the below*
Route #1 *Exploring data science field __and__ intro. to programming*	**Programming & Mathematics Foundations**	**CDS DS 210** Programming for Data Science
CDS DS 100 →	CDS DS 110 **AND** (CDS DS 120 **OR** DS 121 **OR** DS 122)	**CDS DS 310** Data Mechanics
		CAS MA 214 Applied Statistics
Route #2 *Intended for those with prior programming exposure*	**Mathematics Foundations**	**CDS DS 320** Algorithms
NOTE: *Students who do not complete DS 110 must keep in mind the minimum requirements for CDS residency hours (bottom of page) to earn the minor*		**CDS DS 340** Machine Learning
CDS DS 110 **OR** CAS CS 111 →	CDS DS 120 **OR** CDS DS 121 **OR** CDS DS 122	**CDS DS 480** Ethical and Social Implications

ADDITIONAL BREADTH OR DEPTH

Elective Options	CDS Practicums through SPARK!
To reach the 24 minimum credit hour threshold, students may enroll in __elective choices from either track__ -- Methodology or In-the-Field	*To reach the 24 minimum credit hours or CDS residency requirement, students may enroll in __up to 8 credit hours of CDS practicums with Spark!__*
In-the-Field Electives Methodology Electives	CDS DS 519 -- Software Engineering Practicum CDS DS 539 -- Data Science Practicum CDS DS 549 -- Machine Learning Practicum

Minimum letter grade of C must be earned to satisfy course requirements

<u>Minimum Credit Hour Requirement: 24</u>

A total of 16 credit hours (4 courses) MUST be taken through CDS

Maximum of two courses may be used toward major and minor requirements