Data Science with Graphic and Experience Design (Certificate)

The Undergraduate Certificate of Data Science with Graphic and Experience Design is a 12 credit interdisciplinary credential that offers a path towards developing essential skills in data science with depth in Graphic and Experience Design (GXD) content. Students who pursue this certificate will have the opportunity to learn from data science instructors, practitioners, and Graphic Design faculty in industry and academia, alongside their peers from various colleges. Students will pursue courses in data management, communication, applications, ethics, data visualization and representation, and more, in addition to choosing from electives of interest.

Contact

Data Science Academy

datascienceacademy@ncsu.edu

Plan Requirements

Required Courses

Code	Title	Hours
Required DSC Courses: At least one course from each category		**6**
Data Communication		
DSC 202	Introduction to Data Visualization	
DSC 205	Data Communication	
Ethics, Policy, & Privacy		
DSC 225	Data Science for Social Good	
DSC 235	Introduction to Data Science for Cybersecurity	
Data Management & Analysis		
DSC 201	Introduction to R/Python for Data Science	
DSC 406	Exploratory Data Analysis for Big Data	
Machine Learning and AI		
DSC 412	Exploring Machine Learning	
Electives or Internships & Capstones		
DSC 405	Data Wrangling and Web Scraping	
DSC 410	Data Internship Preparation for Social Impact	
Required Depth Courses		**6**
One three-credit course		
GD 575	Accessible Design	
One three-credit course from the following list		
ST 311	Introduction to Statistics	
CSC 110	Computer Science Principles - The Beauty and Joy of Computing (Restrictions: Cannot have taken CSC 111 or CSC 112 or CSC 113 or CSC 116)	
COM 289	Science Communication and Public Engagement	
STS 302	Contemporary Science, Technology and Human Values (Prerequisite: Sophomore standing)	
NOTE 1: Students pursuing multiple Data Science Academy credentials must have at least 2 distinct 1-credit DSC courses and 2 distinct 3-credit depth courses between any two credentials (8 distinct credits total).		
NOTE 2: Per university requirements courses already used to satisfy two or more credit requirements cannot also be used to satisfy the data science certificate (or any third requirement).		
Total Hours		**12**