Data Science with Graphic and Experience Design (Minor)

The Undergraduate Minor of Data Science with Graphic and Experience Design is a 15 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 minor 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 & representation, and more, in addition to choosing from electives of interest.

Plan Requirements

Required Courses

Code	Title	Hours	Counts towards
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		**9**	
One six-credit studio			
GD 400	Advanced Graphic Design Studio (Students must take either the SAS or LAS GD 400 Studio. Prerequisite: GD 301)		
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		**15**	