MISSISSIPPI STATE UNIVERSITY™
DATA SCIENCE ACADEMIC INSTITUTE

Visualization and Visual Analytics for Built Environment

Year One

Fall Semester		
EN	1103	English Composition I
MA	1713	Calculus I
CSE	1284	Intro to Programming
DSCI	2013	Data Science Literacy
		Lab Based Science

Spring Semester		
EN	1113	English Composition II
MA	1723	Calculus II
CSE	1384	Intermediate Programming
DSCI	2012	Data Wrangling Lab
		Lab Based Science

Year Two

Fall Semester		
MA	2733	Calculus III
CSE	2813	Discrete Structures
DSCI	3013	Data Acquisition
BIS	3233	Management Information Systems
		Humanities

Spring Semester		
MA	3123	Statistical Inference
CSE	2383	Data Structures & Analysis of Algorithms
DSCI	4013	Data Visualization
PHI	1113	Intro to Logic
		Fine Art

Year Three

Fall Semester		
MA	3113	Intro to Linear Algebra
CSE	4633	Artificial Intelligence
DSCI	3022	Data Visualization Lab
		Public Speaking Course
		Social/Behavioral Science
		1 of 8 Fundamental Courses

Spring Semester		
MA	4523	Intro to Probability
CSE	4503	Database Management Systems
DSCI	3012	Description, Analysis & Inference Lab
		Written Communication Course
		2 of 8 Fundamental Courses
		3 of 8 Fundamental Courses

Year Four

Fall Semester		
CSE	3763	Legal & Ethical Issues in Computing
DSCI	3032	Artificial Intelligence Lab
		4 of 8 Fundamental Courses
		5 of 8 Fundamental Courses
DSCI	4553	Senior Capstone One

Spring Semester		
DSCI	2022	Cloud, Quantum & High Perf Computing Lab
		6 of 8 Fundamental Courses
		7 of 8 Fundamental Courses
		8 of 8 Fundamental Courses
DSCI	4663	Senior Capstone Two

Updated 06/2024

Fundamental Courses (Choose 8):

ART 1123 Design I (2D)
ART 2803 Intro to Comp. Art
ART 2813 Intermediate Computing for Design
ART 4813 Multimedia I
BCS 2313 Virtual Design & Construction
ID 3603 Digital Design for Interiors
ID 3363 3D CAD Modeling
ARC 2713 Passive Bldg. Systems
ARC 3723 Active Bldg. Systems
ARC 4633 Architecture and Virtual Spaces