

# Course Syllabus

## MAD 103: Data Fundamentals - Fall 2024

Instructor: Sodiq Shofoluwe

### Course Outline: MAD 103

**Instructor:** Sodiq Shofoluwe

**Term:** Fall 2024

### Important Dates

- September 3rd, 2024 - Semester starts
- September 16th, 2024 - Last day to add/withdraw for the fall semester
- October 14th, 2024 - Thanksgiving Holiday (College Closed)
- November 12th, 2024 - 2/3rd drop date (Last date to drop a class)
- December 9th - 13th, 2024 - Final Test Week

### Course Syllabus

**Course:** Data Fundamentals

*NOTE: This outline is a guide only. Changes from week to week may occur. You will be notified via your college email address of any changes.*

### Week-by-Week Breakdown

#### Week 01

Course Introduction – XML Documents  
Assignment #1  
Quiz #1

#### Week 02

Working with Data – Introduction to JSON  
Assignment #2  
Quiz #2

#### Week 03

Types of Information  
Assignment #3  
Quiz #3

#### Week 04

TEST #1 (Covers week 1-3)

#### Week 05

Data Definition Language – CREATE, ALTER, DROP  
Assignment #4  
Quiz #4

**Week 06**

Data Manipulation Language – INSERT, UPDATE, DELETE  
Assignment #5  
Quiz #5

**Week 07**

Data Manipulation Language – SELECT  
Assignment #6  
Quiz #6

**Week 08**

Data Manipulation Language & Review – Working with Functions  
Assignment #7  
Quiz #7

**Week 09**

Data Manipulation Language – Working with Aggregate Functions  
Assignment #8  
Quiz #8

**Week 10**

TEST #2 (Covers week 4-8)

**Week 11**

Data Manipulation Language – Working with Subsets of Information  
Assignment #9  
Quiz #9

**Week 12**

Data Manipulation Language – Working with Multiple Tables  
Assignment #10  
Quiz #10

**Week 13**

Normalization  
Assignment #11

**Week 14**

Entity Relationship Diagrams  
Assignment #12

**Week 15**

TEST #3 (Covers week 9-14)

## Important Policies

- **Assignments and Quizzes:** All assignments and quizzes are due by the posted due dates and times. Any assignments submitted past the posted due date and time will receive a mark of 0.
- **Individual Work:** These are individual assignments – no group work is allowed. All assignments must be completed by you alone. Any assignments that match will receive a mark of 0 and will be handled as per the Code of Student Rights and Responsibilities.
- **Generative AI:** The use of generative artificial intelligence tools and apps is strictly prohibited in all course assessments. Use of generative AI in this course is considered Academic Misconduct.

## Assessment Totals

- Assignments: 30%
- Test 1: 20%

- Test 2: 20%
- Test 3: 20%
- Quizzes: 10%