

# Collin College - Continuing Education

## COURSE SYLLABUS

### COURSE INFORMATION

**Course Number:** ITSW 1053

**Course Title:** Data Science - Introduction

**Course Description:** Introduction to data science principles including terminology, workflow, and information communication.

**Suggested Course Prerequisite(s):** None

**Course Resources:** Student must bring personal laptop computer for use in class.

**Student Learning Outcomes:** Demonstrate familiarity with data science terminology and workflow.

**Certification Notes:** Part of the Data Science certificate series

**Lesson Plan – by week or session:**

Introduction – Course overview, What is Data Science, Setup

What is Data, Introduction to Jupyter Notebook

Tools(requiring coding), Python refresher

Read, Clean and Visualize data (URL, Excel, CSV) – Pandas, Matplotlib – 1

Read, Clean and Visualize data (URL, Excel, CSV) – Pandas, Matplotlib – 2

Explore data with statistics, Inference

Tools(that do not need coding, FREE and Open Source), WEKA, RapidMiner

Bring it all together

**Course Sessions:** Listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

**Refund Policy:** Please refer to [www.collin.edu/ce/infoRegistrar.html](http://www.collin.edu/ce/infoRegistrar.html) for our refund policy. No refunds after the start time of the first class.

**Americans with Disabilities Act:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information. <http://www.collin.edu/studentresources/personal/studenthandbook.aspx>