

Data Analysis Lessons

Last updated: 08/22/2014

Author Information

Dr. Kathleen Ossman

Dr. Gregory Bucks

University of Cincinnati

Details

Description

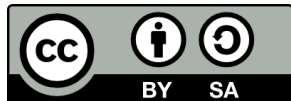
This module contains pre-lecture videos, lecture slides and exercises to teach a range of data analysis concepts. These materials are a subset of course materials from *Engineering Models* that is taught to hundreds of high school students in conjunction with the University of Cincinnati as a dual enrollment course.

Contents

Lessons

- [Dataset Arrays Part 1](#)
 - Lecture: Introduction to Dataset Arrays
 - Pre-Lecture Videos:
 - Useful Array Function for 1-d Arrays
 - Basic Descriptive Statistics
 - Exercise: Cincinnati Weather
- [Dataset Arrays Part II](#)
 - Lecture:
 - Big Data
 - Statistical Analysis and Data Presentation
 - Pre-Lecture Videos
 - Pie Charts

- Bar Charts
- Scatter Plots
- Exercise: Airport Data
- [Dataset Arrays Part III](#)
 - Lecture: Using Numerical Integration to Estimate Energy Usage
 - Exercise: Using Numerical Integration to Estimate Energy Usage



This work is licensed under a [Creative Commons Attribution-ShareAlike 3.0 Unported License](#).

Learn more about MathWorks academic resources:

[MATLAB Courseware](#)
[Tutorials](#) [Webinars](#)

[Hardware Resources](#)
[Technical Articles](#)

[Classroom Resources](#)

[MATLAB Examples](#)

[Books](#)