



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Data Analysis and Decision Making
Course Number: CIS125

Required Materials

Textbook(s): Data Analytics Using Excel® Microsoft® 365 With Accounting and Finance Datasets v3.0
 Joseph M. Manzo ISBN (Digital): 978-1-4533-3759-2
***NOTE:** A new copy of the book (paper and/or digital) must be purchased in order to gain access to learning system used for homework*

Required Readings: Assigned textbook

Additional Materials: Publisher Student Link: <https://students.flatworldknowledge.com/course/2606251>

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

16-Week Calendar

Week	Chapter/Topic/Lab
Week 1	Course Review <ul style="list-style-type: none"> • All items on the Start Here Page and Week 1 materials folder. • Syllabus Quiz & Introduction Post
Week 2	CHAPTER 1 Introduction to Data Analytics and Microsoft Excel 365 <ul style="list-style-type: none"> • Read Chapter 1 and All items in the materials folder • Chapter 1 lab
Week 3	CHAPTER 2 Essential Skills for Basic Data Analytics Projects <ul style="list-style-type: none"> • Chapter 2 and All items in the materials folder • Chapter 2 lab
Week 4	CHAPTER 3 Data Analytics Techniques for Basic Projects <ul style="list-style-type: none"> • Chapter 3 and All items in the materials folder • Chapter 3 lab
Week 5	CHAPTER 4 Using Mathematical Outputs for Analytics <ul style="list-style-type: none"> • Chapter 3 and All items in the materials folder • Chapter 3 lab
Week 6	CHAPTER 5 Scenario Analytics <ul style="list-style-type: none"> • Chapter 5 and All items in the materials folder • Chapter 5 lab

Week	Chapter/Topic/Lab
Week 7	Midterm Exam (Chapters 1-5)
Week 8	CHAPTER 6 Exception Analytics <ul style="list-style-type: none"> • Chapter 6 and All items in the materials folder • Chapter 6 Lab
Week 9	CHAPTER 7 Summarizing Exception Analytics <ul style="list-style-type: none"> • Chapter 7 and All items in the materials folder • Chapter 7 lab
Week 10	CHAPTER 8 Working with Big Datasets Case: Investigating Fraud <ul style="list-style-type: none"> • Chapter 8 and All items in the materials folder • Chapter 8 lab
Week 11	CHAPTER 9 Charts for Presentations and Data Visualization <ul style="list-style-type: none"> • Chapter 9 and All items in the materials folder • Chapter 9 lab
Week 12	CHAPTER 10 Predictive Analytics Case: Can You Predict the Stock Market? <ul style="list-style-type: none"> • Chapter 10 and All items in the materials folder • Chapter 10 lab
Week 13	Final Exam (Chapters 6-10)
Week 14	Comparing Visualization Tools
Week 15-16	Data Analytics Wrap Up <ul style="list-style-type: none"> • All items in the materials folder • Data Visualization with Tableau – EXTRA CREDIT

8-Week Calendar

Week	Chapter/Topic/Lab
Week 1	Course Review <ul style="list-style-type: none"> • All items on the Start Here Page and Week 1 materials folder. • Syllabus Quiz & Introduction Post CHAPTER 1 Introduction to Data Analytics and Microsoft Excel 365 <ul style="list-style-type: none"> • Read Chapter 1 and All items in the materials folder • Chapter 1 lab
Week 2	CHAPTER 2 Essential Skills for Basic Data Analytics Projects <ul style="list-style-type: none"> • Chapter 2 and All items in the materials folder • Chapter 2 lab CHAPTER 3 Data Analytics Techniques for Basic Projects <ul style="list-style-type: none"> • Chapter 3 and All items in the materials folder • Chapter 3 lab
Week 3	CHAPTER 4 Using Mathematical Outputs for Analytics <ul style="list-style-type: none"> • Chapter 3 and All items in the materials folder • Chapter 3 lab CHAPTER 5 Scenario Analytics <ul style="list-style-type: none"> • Chapter 5 and All items in the materials folder • Chapter 5 lab
Week 4	Midterm Exam (Chapters 1-5) CHAPTER 6 Exception Analytics <ul style="list-style-type: none"> • Chapter 6 and All items in the materials folder • Chapter 6 Lab
Week 5	CHAPTER 7 Summarizing Exception Analytics <ul style="list-style-type: none"> • Chapter 7 and All items in the materials folder • Chapter 7 lab CHAPTER 8 Working with Big Datasets Case: Investigating Fraud

Week	Chapter/Topic/Lab
	<ul style="list-style-type: none"> • Chapter 8 and All items in the materials folder • Chapter 8 lab
Week 6	<p>CHAPTER 9 Charts for Presentations and Data Visualization</p> <ul style="list-style-type: none"> • Chapter 9 and All items in the materials folder • Chapter 9 lab <p>CHAPTER 10 Predictive Analytics Case: Can You Predict the Stock Market?</p> <ul style="list-style-type: none"> • Chapter 10 and All items in the materials folder <p>Chapter 10 lab</p>
Week 7	<p>Final Exam (Chapters 6-10)</p> <p>Comparing Visualization Tools</p>
Week 8	<p>Data Analytics Wrap Up</p> <ul style="list-style-type: none"> • All items in the materials folder • Data Visualization with Tableau – EXTRA CREDIT