



Audit Data Analytics Focused on Delivering Accounting, Audit, and Financial Insights

Course Name: ACCT 5910-01 Audit Analytics

Class Schedule: 5:30 PM to 9:00 PM Monday Starting June 25, 2018 to August 13, 2018

Room: Pigott 202

Faculty: Steve Mar

Required Text Book: Data Analytics Made Accessible: 2018 Edition Dr. Anil Maheshwari – Only available as Kindle Book via Amazon. Cost is \$9.99 plus tax. You can read with a Kindle app on phone, iPad, or PC device. – Sorry there is no Seattle U Bookstore edition available.

Course Learning Objectives:

1. Introduce Key Data Analytic (DA) Concepts and General Tools to allow Business, Finance, Audit, and Accounting Users to quickly adopt and deploy Business Intelligence and Accounting Insights.
2. Plan Data Analytics Project and Programs that are impactful.
3. Develop an understanding of the business process model and mine the key performance data points and indicators.
4. Gather and clean data to solve significant Business and Accounting Problems.
5. Analyze “clean” data to discover and answer Business and Accounting Questions.
6. Present and visualize Accounting, Audit, Financial, and Business Insights.

Students will learn, plan, and perform data analytic projects to deliver reports that visualize information so management can make insightful decisions.

We will focus on key principles, frameworks, and powerful data tools given the course schedule. Specifically, Students will learn to use EXCEL, Access, SQL, and Tableau to plan, mine, gather, and analyze, and visualize business and accounting data.

Students will plan, gather data, perform analysis, and deliver key insights on the following proposed Case Study questions:

Accounting – Review and analyze different College Procurement Accounts to determine if transactions comply with existing Accounting Policies.

Audit – What data should we analyze to assess one of the highest technology process risks, Cyber Security? How do External Auditors analyze sales, operating margins, customer counts, and industry comparables to gain future insights?

Finance - What does past financial data tell us about the organization’s operation, investment returns, and sustainability?

High Level Course Syllabus:

Weeks	Topic/ Learning Objective	Homework	Accounting, Audit, and Financial Problems to Analyze	Data Analytics Project Process	Tools
1 - 2	<ol style="list-style-type: none"> 1. Introduce Concepts and Tools. 2. Plan DA Projects/ Programs. 3. Understand Business Process to identify greatest value or risk assessment. 	<p>Read materials on data gathering, normalization, and discovery.</p> <p>Read about Unstructured and Structured Data.</p>	<p>Learn and Analyze College Purchasing Card Process.</p> <p>How to audit key Cyber Security Controls – Password Quality and Policy Compliance.</p>	<p>Discuss Data Analytics Planning Framework.</p> <ol style="list-style-type: none"> 1. What is the highest opportunity, risk and priority? 2. What does the data tell me about the highest opportunity, risk and value? 	<p>Learn or refresh initial EXCEL and ACCESS skills</p>

Weeks	Topic/ Learning Objective	Homework	Accounting, Audit, and Financial Problems to Analyze	Data Analytics Project Process	Tools
3-4	<p>4. Determine what data is needed. Who grants data access and provides metadata.</p> <p>5. Review business process to better understand data needs.</p> <p>6. Cover Probability and Statistics.</p>	<p>Read about Probability and Statistics</p> <p>Read about Data Mining</p> <p>Read about Data Visualization</p>	<p>Analyze accounting data to gain insights</p> <p>Review and analyze audit related data to identify risks and controls.</p> <p>Select Personal Data Analytics Project</p>	<p>3. What data do I need?</p> <p>4. Who do I get the data from?</p> <p>5. What do we already know about the business process?</p>	<p>Introduce or review Tableau skills</p>
5 - 6	<p>7. Organize data sourcing strategy.</p> <p>8. Confirm data accuracy and completeness.</p> <p>9. Create Impactful BI and Accounting Insights.</p>	<p>Read about Big Data</p> <p>Read about DA documentation process.</p> <p>Read about Text and Web Mining.</p>	<p>Understanding key financial problems to solve using data analytics.</p> <p>Cover</p>	<p>6. What is our data sourcing strategy?</p> <p>7. How do we confirm the data accuracy and completeness?</p>	<p>Introduce Business BI</p>
7 - 8	<p>10. Complete and Document Data Analytics Project.</p> <p>11. Deliver Data Analytics Insights and Value.</p> <p>12. Present Final Project Report to</p>		<p>Students will present their final data analytics project presentation to a panel of Industry Professionals.</p>	<p>8. How will we generate and communicate insights?</p>	<p>Cover next level SQL Coding skills</p> <p>Presentation Software</p>

Weeks	Topic/ Learning Objective	Homework	Accounting, Audit, and Financial Problems to Analyze	Data Analytics Project Process	Tools
	Professional Data Analysts and Leaders.				

Grading will be project based, homework assignments, and in class participation.

Points	Grade
900-1000	A
800-899	B
700-799	C
600-699	D

Adjustments may be considered depending upon overall class performance and points distribution.