

## DSC 510 Tentative Schedule

Week	Dates	Chapters	Lecture Description	Assignments
1	09/07/2021	Woodside Chapters 1 and 2 How to Read a Journal Article	Syllabus, Tentative Schedule Overview of Healthcare Industry and Healthcare Analytics, Data security, ethics, fraud, information governance, and other healthcare data challenges	
2	09/14/2021	Woodside Chapters 3 and 4	Introduction to Epidemiology, ICD Codes, Healthcare Research Questions, and Data Preparation with SAS and R	<b>Final Project Proposal Due – Sunday, Sept. 19<sup>th</sup></b>
3	09/21/2021	Woodside Chapter 5	Electronic Health Records (EHR) Implementation and Provider Datasets	<b>Case Study Report 1 Due – Sunday, Sept. 26<sup>th</sup></b>
4	09/28/2021	Woodside Chapter 6	EHR and Patient Datasets (Continued)	<b>Programming Assignment 1 Due Sunday, Oct. 3<sup>rd</sup></b>
5	10/05/2021	Woodside Chapter 7	Payer Datasets	
6	10/12/2021	Woodside Chapter 8 and 9	Health Data Quality and Billing Datasets	<b>Final Project Data Analysis Rough Draft – Due Sunday, Oct. 17<sup>th</sup></b>
7	10/19/2021	Woodside Chapter 10	Unstructured Health Data using Text Mining and Social Media	
8	10/26/2021	Woodside Chapter 10	Unstructured Health Data using Text Mining and Social Media (Continued)	<b>Case Study Report 2 Due – Sunday, Oct. 31<sup>st</sup></b>
9	11/02/2021	Woodside Chapter 11	Geospatial Analysis (GIS) and Visualizing Healthcare Data	<b>Programming Assignment 2 Due – Sunday, Nov. 7<sup>th</sup></b>
10	11/09/2021	Woodside Chapter 11	Future Health Trends and Other Data Science Techniques: Artificial Intelligence, Machine Learning, and Big Data	<b>Final Project Rough Draft Due – Sunday, Nov. 14<sup>th</sup></b>
11	11/16/2021		<b>Final Presentations</b>  <b>Final Paper – Due Friday, November 19, 2021</b>	Final Presentations Due Final Paper Due