

Applied Data Science

INFO-I590-FA17-9903/11899 (hybrid) and 11892 (online) Spring 2018

Joanne S. Luciano, Visiting Associate Professor

Condensed Syllabus

Introduction, Overview of Data Science and Data Communication

Mon Jan 8, 2018	Module 1: Talking About Data – Data Science Overview Assignment 1: Data Science Overview	Due Jan 21, 2018
Mon Jan 15, 2018	Module 2: Data Exploration Assignment 2: Interpreting Graphics	Due Jan 28, 2018
Mon Jan 22, 2018	Module 3: Data Visualizations, Talking about Results, Creating Visualizations Assignment 3 Creating Graphical Representations of Data	Due Feb 4, 2018
Mon Jan 29, 2018	Module 4: Data Access and Data Protection Assignment 4: Data Use Agreements and Classifications	Due Feb 11, 2018

Data Cleaning & Enhancing: Munging, Wrangling, and Management

Mon Feb 5, 2018	Module 5: CSV, JSON and SQL Assignment 5: CSV, JSON and SQL	Due Feb 18, 2018
Mon Feb 12, 2018	Module 6: XML, RDF and NoSQL Assignment 6: XML, RDF/OWL and NoSQL	Due Feb 25, 2018
Mon Feb 19, 2018	Module 7: Linked Data and Ontologies Assignment 7: Linked Data and Ontologies	Due Mar 11, 2018

Data Manipulations

Mon Feb 26, 2018	Module 8: Linear regression, Decision trees Assignment 8: Algorithms: Linear Regression, KNN, Decision Trees	Due Mar 25, 2018
Mon Mar 26, 2018	Module 9: Naive Bayes, SVM, Neural Networks Assignment 9: Algorithms: Naive Bayes, SVM, Neural Networks	Due Apr 22, 2018

Data Science Final Report	Due May 2, 2018
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ADS Assignment Summary:

Date Due	Details
Sun Jan 21, 2018	A1_Data Science Overview
Sun Jan 28, 2018	A2_Interpreting Graphics
Sun Feb 4, 2018	A3_Creating Graphical Representations of Data
Sun Feb 11, 2018	A4_Data Use Agreements and Classification
Sun Feb 18, 2018	A5_CSV, JSON and SQL
Sun Feb 25, 2018	A6_XML and NoSQL
Sun Mar 11, 2018	A7_Linked Data and Ontologies
Sun Mar 25, 2018	A8_Algorithms: Linear Regression, KNN, Decision Trees
Sun Apr 22, 2018	A9_Algorithms: Naive Bayes, SVM, Neural Networks
Wed May 2, 2018	Data Science Final Report