INTRODUCTION TO DATA SCIENCE

FALL 2017

Lecture: Monday, Wednesday 2:10 - 3:00pm. At CARVER 0204
Lab: Friday 1:10 - 3:00pm. Location: TBD

DS 201X: Introduction to Data Science. (2-2). Cr. 3

Join the exciting fast growing area of Data Science! Manage and analyze large complex data sets, develop the tools for maximizing the benefits of that information. This course will provide hands-on data analysis experience. No prior knowledge of programming is required.

In this course, we will cover:
- Basic concept of Data Science
- Exploration of the Data Science process
- Application of probability and statistics to data science
- Data exploration and visualization
- Data ingestion, data cleaning, and transformation
- Descriptive Data Analysis
- Hands-on data analysis experience
- Work on Data Science projects with selected programming languages: Python, Jupyter notebook, Pandas, matplotlib, seaborn, bokeh, spreadsheets and databases
- Ethical issues in data science

Grading will be based on midterm and final exam, homework assignments, programming projects.

Register for DS 201X now on AccessPlus.

http://web.cs.iastate.edu/~adisak/datascience/