Course Syllabus

DATA 399: Data Science Colloquium II

Description: *Students will present an ethical case study on an analytical or statistical data topic. Students will propose and design a capstone project integrating their mathematical, statistical, computational, and applied knowledge. Guest speakers may be arranged to present on a variety of topics. Meets jointly with DATA 299 and DATA 499.*

Credit Hours: 1

Frequency: Offered every semester

Audience: Required for the data science major

Prerequisites: DATA 299 and junior standing

Format: 1 class session (50 minutes) per week

Textbook: None

Technology: Course materials and grades are maintained in Blackboard, and students should check Blackboard regularly.

AARC: The Access and Accommodations Resource Center (AARC) is the campus office that works with students to provide access and accommodations in cases of diagnosed mental or emotional health issues, attentional or learning disabilities, vision or hearing limitations, chronic diseases, or allergies. You can contact the office at aarc@valpo.edu or 219.464.5206. Students who need, or think they may need, accommodations due to a diagnosis, or who think they have a diagnosis, are invited to contact AARC to arrange a confidential discussion with the AARC office. Further, students who are registered with AARC are required to contact their professor(s) if they wish to exercise the accommodations outlined in their letter from the AARC.

Notice of Cancellation: In the unlikely event class is cancelled, you will be notified through your Valparaiso University e-mail account.

Student Learning Objectives:

A. Students will be exposed to a wide variety of data science techniques and applications.

B. Students will critique articles utilizing data, identifying sources of bias and misinterpretations.

C. Students will communicate effectively about data science in both written and oral form using both technical and nontechnical language.

D. Students will propose and design their own major projects involving data science.