CIS 140 R Programming for Big Data

CIS 140 R PROGRAMMING FOR BIG DATA

Introduction to the field of Big Data, its concepts and technologies, as well as R programming. Students will explore the roles of a data scientist in terms of network architecture, data analytics and predictive analysis. Fundamental questions of data science and scenarios appropriate for each will be discussed. Differentiation among raw data, clean data, and tidy data; and tools to convert data to/from these formats will be covered. Effective management of large data in single and distributed computing environments, including managing data redundancy and failures, will be covered. Testing, correlation, clustering, and data visualization will be introduced. Intended for students with previous programming experience. Grade Option (Letter Grade or Pass/No Pass). Degree Credit.

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 838 or ENGL 848 or ESL 400. Completion of CIS 254.

Transfer Credit: CSU, UC

Courses marked with a (*) are transferable with unit limitations as specified in assist.org.

If you have questions, see your counselor.