

ICS C165: FOUNDATIONS OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Item	Value
Top Code	070700 - Computer Software Development
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S), <ul style="list-style-type: none">• Pass/No Pass (B)

Course Description

This course introduces the foundational concepts, methods, and tools of data science and artificial intelligence (AI). Topics include data collection and cleaning, exploratory data analysis, statistical and data modeling techniques, data visualization, and the ethical implications of AI. Students will develop a strong foundation in understanding how data can be leveraged to make predictions and informed decisions across various domains. This course combines theory and practical applications, equipping students with the skills needed to analyze data, understand AI's potential and limitations, and create basic models that can learn from data. Transfer Credit: CSU.

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)