Foundations of Data Analysis

Last Updated: Fri, 12/19/2025

Course prefix: MGT

Course number: 6500

Section: EMA, EMO

CRN
24559 34165

Instructor first name: Ravi

Instructor last name: Subramanian

Semester: Spring

Academic year: 2026

Course description:

To introduce participants to a problem-driven approach to assembling, analyzing, and taking action on data. With the Problem-Plan-Data-Analysis-Conclusions (PPDAC) Cycle and Gartner's Analytics Maturity Model (Descriptive → Diagnostic → Predictive → Prescriptive Analytics) as frameworks, fundamental concepts for the analysis of data will be covered, including descriptive statistics, visualizations, probability and distributions, confidence intervals, hypothesis testing, and regression analysis/predictive analytics. Knowledge of the "whys" behind these tools facilitates rigorous data-driven decision-making.

Academic honesty/integrity statement:

Students are expected to act and **must also expect their peers to act** according to the highest ethical standards, as outlined in the honor code at http://www.policylibrary.gatech.edu/student-affairs/academic-honor-code.

- **You are not allowed to seek or receive previous class material** (including class notes, readings, quizzes, exams, class recordings, etc.).
- While collaboration is allowed for the Quizzes (submissions are individual), **simply pasting questions into LLMs or copying/giving away answers is not allowed**.
- Note that **collaboration is not allowed for the Personal Reflection and the Final Exam**.
- **Sharing/posting or offering to share/post any course material or recordings** (except sharing your class notes with your classmates) – whether during or after the end of the course – will violate the honor code and is not allowed.