

Welcome to CMPSC 105

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CMPSC 105 - Data Exploration

- Spring 2025
- Tu/Th 9:30-10:45am
- Th 2:30-4pm
- Alden 101

Where are we?

- Department of Computer and Information Science
- Four Majors/Minors
 - Computer Science
 - Data Science
 - Informatics
 - Software Engineering
- Common Doubles
 - Art, Science, and Innovation
 - Economics

What is this course about?

- this course is for anyone interested in becoming familiar with:
 - data visualization
 - data analysis
 - data gathering

- data storytelling
- jump starts independent research projects with generalizable skills
- CIS Informatics Major
- CIS Data Science Major/Minor

Learning Outcomes

- Identify and describe key elements in different types of data visualizations.
- Visualize data on web-based platforms.
- Develop hypotheses and find data to address hypotheses.
- Calculate statistics and visualize key patterns in the data with Python.
- Document data explorations in markdown.

Other Syllabus Highlights

- Participation is a major part of participation (30% of overall grade)
- Participation includes:
 - Discord use at least once per week
 - Completing group work
 - Quizzes on readings and other class materials
- Labs are due before lab!
- Four tokens grant automatic extensions for one week
- After the first week, five absences will be excused before overall grade is impacted
 - three lates are equivalent to an absence

Materials

- Course Website
 - syllabus
 - assignment schedule for reading and lab due dates
 - course materials

Materials Continued

- GitHub for accessing and submitting assignments
- Google Colab for completing assignments
- Google Forms
- Discord for announcements and participation
- Canvas for grades

Tell us about yourself!



Name, where you are from, first favorite band, and some of your current favorite foods?

CIS Shared Values



What if?



- a student knows they are going to be late to a one-on-one office hours appointment?
- a student wants to submit their work late but not use a token?
- a student has a question but has not reviewed notes or read the textbook?

Partnerships

- Students who have experience with GitHub, Python, Python Notebooks, Discord
- Students new to computer science

Setting up

- bookmark the [website](#)
- bookmark access to [your repos](#)
- bookmark the [105 Discord Channel](#), or [access from the course website](#)
- bookmark notes that you take in Google Colab or elsewhere
- bookmark [Canvas](#)
- etc.