# ECON 0150 | MiniExam 01 | Spring 2025

This MiniExam will take 8 minutes with quick break to follow. MiniExams are designed to both test your knowledge and challenge you to apply familiar concepts in new environments. Treat it as if you're trying to show me that you understand the material. Answer clearly and completely.

## Academic Conduct Code

The following academic conduct code is designed to protect the integrity of your work. Print your name/initials beside the five academic honesty agreements. I pledge to my fellow students, the university, and the instructor, that:

_____ I will complete this MiniExam solely using my own work.
_____ I will not use any digital resources unless explicitly allowed by the instructor.
_____ I will not communicate directly or indirectly with others during the MiniExam.

**Q1. Identify the data types for the following data snippet:**

- **Age**:
- **Gender**:
- **Salary**:
- **Employed:**

| Age | Gender | Salary | Employed |
|-----|--------|--------|----------|
| 35 | Male | 50,000 | Yes |
| 28 | Female | 65,000 | No |
| 39 | Non-binary | 52,000 | Yes |
| ... | ... | ... | |
| 40 | Female | 45,000 | Yes |

**Q2. You have a variable with more than two categories. Which visualization would you use? (circle one)**

Pie, Bar, Histogram, Line

**Q3. You have a dataset of student grades (0 - 100) for a class. Which visualization would you use? (circle one)**

Pie, Bar, Histogram, Line

**Q4. The following dataset shows employee satisfaction scores across different departments and salary bands. What visualization technique would be most appropriate to compare satisfaction levels across departments while showing the distribution within each department? Use one sentence to explain your choice.**

| Department | Satisfaction_Score | Salary_Band |
|------------|--------------------|-------------|
| Sales | 4.2 | High |
| Sales | 3.8 | Medium |
| IT | 4.5 | High |
| IT | 4.1 | Low |
| Marketing | 3.9 | Medium |
| Marketing | 4.0 | High |