

You will participate in a research project, which aims to provide you with hands-on experience in the research process.

The project grade will be based on scaffolded assignments, which will include developing research questions and hypotheses, analyzing the collected data using descriptive statistics, and a final paper.

Learning Objectives

1. Knowledge and conceptual understanding learning goal: Students should be able to understand and describe basic research terms and methodology, calculate percentages, and create tables and graphs which properly demonstrate the research data. Students will be able to collect data using Google Forms.
2. Thinking and other skills learning goal: Students will be able to collect data using Google Forms and develop basic skills to work with spreadsheet software to analyze the data. Students will be able to explain their research findings.
3. Attitudes, values, dispositions and habits of mind learning goal: Students will be more comfortable interpreting tables and graphs.

This folder includes details about the scaffolded assignments, grading, and assignments.

Overview:

Your task will be to complete two assessments (pre & post) and conduct a self-administered research project. Submit all assignments on Blackboard. This will include the following steps:

1. Discuss research processes, research questions, descriptive statistics, tables and graphs, and how to interpret and communicate research findings
2. Develop one research question and submit a worksheet describing your hypotheses
3. Collect and analyze the data (in Google Forms and a Google spreadsheet/Excel)
4. Conduct basic descriptive analysis
5. Submit a presentation communicating of your full project

Scaffolded assignments	Points	Due Date & Time
QR Pre-assessment	5	9/2
Article Review	10	9/23
Data Collection (5 completed)	10	10/14
RQ and HYP Worksheet	5	10/21
Data Worksheet	5	11/11
Final Paper	25	12/2
QR Post-assessment	5	12/9

Week 2: Introduction to Research (each week is a folder on Blackboard)

In-class: (1) Brief introduction to overall project and tasks.

HW: Complete a pre-assessment of your QR skills and attitudes (9/9). Assessment is in this folder. Students receive full credit for completing the assessment regardless of score.

Week 7: Research continues and article review (each week is a folder on Blackboard)

- **In-class:** Introduction to research methods- powerpoint presentation included in this folder for you to review.
- **HW:** Review this research article and respond to questions. We will discuss in class on 9/23

Kwon, R. & Cabrera, C.F. (2019). Income inequality and mass shootings in the United States, BMC, Public Health. Full article in this folder.

Week 6: Variables and Survey (each week is a folder on Blackboard)

In this folder, you will have access to:

- the Google survey
- Access to helpful videos about research questions (RQ) and independent variables (IV) and dependent variables (DV).
- **HW** (due 10/14): Administer this survey to at least 5 family members/friends. All participants must be over the age of 18 and speak/understand English.
- Lecture notes about IV, DV, RQ from 9/23.

Week 8 and 9: Research Questions and HYP (each week is a folder on Blackboard)

In this folder students have access to information about research questions and hypotheses.

Also, students must complete the **RQ & HYP Worksheet by 10/21**. This worksheet is located in this folder.

Week 11 and 12 (each week is a folder on Blackboard)

In this folder you will find:

- information about how to review and analyze your data.
- the excel file of our results will be in this folder after 10/21 (once all data is collected).
- Your data worksheet is located in this folder.

Week 15: Final Paper (each week is a folder on Blackboard)