

WBUOnline**KENNETH L. MATTOX SCHOOL OF MATHEMATICS & SCIENCES**

Course Name: MATH 1306-VC01; Elementary Statistics

Term: Summer 2026

Instructor: Dr. William Hahn

- Homework Sets and Quizzes will be completed on the Pearson MyLab website and are due at midnight (Central Time Zone) on their due dates but can be worked late with a penalty.
- Plan to spend at least 1-1.5 hours on each homework set and 15-30 minutes on each quiz.
- The Midterm and Final will be completed in person on a Wayland campus in a proctored environment, if at all possible.

Course Outcome Competencies:

1. The student will be able to distinguish between different types of data, different types of sampling, and different types of studies.
2. The student will be able to give accurate and appropriate graphical and numerical summaries of univariate and bivariate data.
3. The student will be able to calculate and interpret probabilities using tables, the binomial distribution, and the normal distribution.
4. The student will be familiar with the assumptions associated with statistical inference, and will know how to check those assumptions.
5. The student will be able to conduct and interpret statistical inference on proportions and means, particularly confidence intervals, sample size calculations, and hypothesis tests.
6. The student will be able to describe relationships between variables, to fit and interpret simple linear regression models, and to make and interpret predictions.
7. The student will be able to analyze one-way and two-way ANOVA.
8. The student will understand the importance of randomization in observational studies and experiments, particularly regarding cause-and-effect interpretations and generalization to a population.
9. The student will be able to think critically, identifying common statistical errors.
10. The student will become familiar with statistical software.

Tentative Schedule (All times are for the Central Time Zone):

Week 1: June 1 – June 8

Videos and Notes for Chapters 1, 2, and 3. Roughly 2.3 hours

Homework Assignments (5), Quiz 1 and Quiz 2 due by Monday, June 8

Week 2: June 9 – June 15

Videos and Notes Chapters 4, 5, and 6. Roughly 2.5 hours

Homework Assignments (4), Quiz 3 and Quiz 4 due by Monday, June 15

Discussion Board

Week 3: June 16 – June 22

Videos and Notes for Chapter 7. Roughly 2 hours

Homework Assignments (2), Quiz 5 and Quiz 6 due by Monday, June 22

Week 4: June 23 – June 27Midterm covering Chapters 1-7 (Paper and Pencil Exam, Proctored)
due by Saturday, June 27

Discussion Board

Week 5: June 29 – July 6

Videos and Notes for Chapter 8. Roughly 2.7 hours

Homework Assignments (3), Quiz 7 and Quiz 8 due by Monday, July 6

Discussion Board

Week 6: July 7 – July 13

Videos and Notes for Chapters 12 and 1. Roughly 2.3 hours

Homework Assignments (4), Quiz 9 and Quiz 10 due by Monday, July 13

Discussion Board

Week 7: July 14 – July 20

Videos and Notes for Chapter 10. Roughly 2.2 hours

Homework Assignments (3) and Quiz 11 due by Monday, July 20

Week 8: July 21 – July 25Final Exam covering Chapters 7, 8, 10, 12, 1 (Paper and Pencil Exam, Proctored)
due by Saturday, July 25