

Quantitative Anthropology
ANTH 38490
Spring 2007
T, Th 12:30- 1:45 pm
149 Lowry

Instructor: Cynthia Thompson
Email: cthomps9@kent.edu
Office: 221 Lowry
Office Hours: T, Th 11:15- 12:30

Schedule

Week of 1/16: Introduction, Data & Variables, Grouping Data for Analysis

Readings: ch 1, 2, 3

Week of 1/22: Measures of Central Tendency, Dispersion

Readings: ch 4

Week of 1/29: Probability

Readings: ch 5, skip 5.7

Week of 2/5: Permutations, Combination, The Binomial

Readings, ch 5, 6

Week of 2/12: Binomials

Midterm 1: Thursday, February 15

Week of 2/19: Introduction to SPSS, Normal Distributions

Readings: ch 7

Week of 2/26: Normal Distributions, Point & Interval Estimation

Readings: ch 7, 8

Week of 3/5: Central Limit Theorem, Confidence Intervals

Readings: ch 8

Week of 3/12: Hypothesis Testing

Readings: ch 9

Midterm 2: Tuesday, March 20

Week of 3/26: Spring Break!

Week of 4/2: t- distribution, 1 & 2 Sample t- tests

Readings: ch 10

Week of 4/9: Paired t-tests

Readings: ch 10

Week of 4/16: Correlation

Readings: ch 14

Week of 4/23: Correlation, Chi- Square Test

Readings: ch 14, ch 11

Week of 4/30: Chi- Square, Contingency Tables

Readings: ch 11,

Final Exam: Wednesday, May 9, 12:45-3:00 pm

Course Goals:

- To introduce basic probability theory, statistical theory, and applications
- Show how these concepts are utilized in anthropology
- Give students the knowledge to understand basic statistics used in the literature, and the ability to apply these methods to other data

Course Materials:

Textbook: Thomas, David Hurst (1986) *Refiguring Anthropology*, Waveland Press, Inc., Prospect Heights, Illinois.

Course Readings will be from this text, as will many of the homework assignments. Example and tables from the book will be regularly used in class, so it will be helpful to bring the book to class with you.

A calculator with basic scientific functions is needed for this course.

Grading:

Midterms: 25% (each)

Final: 30%

Homework: 30%

Homework will be assigned daily. Students must turn in **at least** 5 homework assignments per section of the course (15 total). If more than 5 assignments per section are turned in, the best 5 will count towards your grade. If fewer than 5 are turned in, the missing assignments will be recorded as zero. Homework is due at the **beginning** of the next class. Late homework assignments will not be accepted.

Since material in this course builds upon itself, tests, although not technically cumulative, will require knowledge and understanding of material covered on previous tests. Make-up exams will not be given unless I am notified of conflicts **before** the exam.

Computer Lab and Assignments

We will be spending some time in the anthropology computer lab (113 Lowry) using SPSS for Windows to explore some of the statistical procedures learned in this class. Some of the homework assignments may come from the work that we do in the computer lab. More information on this will be provided later in the course.

Students with Disabilities

In accordance with University policy, if you have a documented disability and require accommodations to obtain equal access this course, please contact the instructor at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the Office of Student Disability Services (SDS) in the Michael Schwartz Student Services Center (672-3391).