

MATH 250 - STATISTICAL METHODS I

Instructor Dr. Thomas Ivey office: #4 Green Way, Rm. 301, phone: 843-953-7276
email: iveyt@cofc.edu, web page: <http://iveyt.people.cofc.edu>

Office Hours tentatively 2-3pm MW, 3-4pm TR (hours and location subject to change). If these times aren't convenient for you, you can make an appointment to see me at some other time. Please note that my building has stairs, and I can meet students at another location if desired.

.masks, worn covering the nose and mouth, are required for in-person office hours.

Textbook *Introductory Statistics* (10th ed.) by Neil Weiss (Pearson Education)

Course Description This course will cover topics including descriptive statistics, probability, discrete and continuous probability distributions, sampling distributions, confidence intervals and hypothesis tests, correlation and simple linear regression. (This material corresponds to most of chapters 1-9, 12 and 14 of the textbook; parts of chapters 10 and 15 will also be covered as time permits.)

Meeting Times and Class Format: The scheduled meeting times are MWF 10-10:50am in Bell 404; however, *most classes will take place online, via Zoom, at the scheduled meeting times.* The main exceptions will be in-class tests. *These arrangements are subject to possible change, depending on public health conditions. Moreover, accommodations can be made for any students who do not feel it is safe or possible for them to attend an in-person class or test. As much as possible, classes will be recorded and posted on OAKS.*

.masks, worn covering the nose and mouth, are required for all in-person classes.

Course Work: In addition to daily reading assignments from the textbook you'll be assigned:

- Weekly homework, based on problems in the textbook, done using the online homework system MyStatLab (details to follow).
- Technology assignments, which are problems from the textbook to be done using software such as Excel or Minitab. I will ask you to turn in a batch of these problems every few weeks (details to follow). Instructions and hints for technology problems will be available on OAKS, along with a periodically updated list of all homework assignments.

You are encouraged to ask about homework problems during class, and to discuss assignments with your classmates. However, what you turn in under your own name must represent your own work.

Important Dates Tests take place on **Saturdays Sept. 19, Oct. 17 and Nov. 14** (*subject to change*). The final exam takes place 8-10am on Wednesday Dec. 9.

Grading Policy Your course grade will be based on your work, in the following proportions: 18% homework, 10% tech. assignments, 16% for each test, and 25% for the final exam. Some degree of subjectivity in grading is inevitable in any course; bearing this in mind, a course grade of 62% or more ensures a D, 70% ensures a C, 80% ensures a B, and 90% an A. Grades may be modified by a plus or minus.

Attendance Policy and Makeups Each student, whether present or not, is responsible for all information disseminated in the course. If you miss a test due to an excused absence, your final exam grade will be substituted for the missed test. Documented excuses will be accepted from the Absence Memo Office (Lightsey Suite 101). For students participating in College-sponsored events, excuses will be accepted in the form of written notification, signed by a faculty or staff member, of dates when classes will be missed.

Calculators A calculator capable of computing statistical functions is required for this class. A standard TI-83 Plus or TI-84 Plus is recommended and acceptable.

General Education Student Learning Outcomes Students are expected to display a thorough understanding of the topics covered. In particular, upon completion of the course, students will be able to (1) model phenomena in mathematical terms, (2) solve problems using these models, and (3) demonstrate an understanding of the supporting theory behind the models apart from any particular application.

Course-Specific Learning Outcomes By the end of the course, students will be able to (1) summarize data by using methods of descriptive statistics; (2) choose appropriate inferential procedures and apply them to make inferences about populations; (3) understand the capabilities and limitations of statistical methods; (4) use appropriate technology to perform various statistical procedures; (5) interpret results and draw conclusions from statistical analyses. These outcomes will be assessed on the final exam.

Disability Statement

The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services/SNAP, located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying the instructor as soon as possible and for contacting the instructor at least one week before any accommodation is needed.

Academic Integrity Statement

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Students should be aware that unauthorized collaboration---working together without permission---is a form of cheating. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.

Students can find the complete Honor Code and all related processes in the *Student Handbook* at <http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php>