

- Instructor:** Tom Fisher
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Office Hours: By Appointment
Web Site: <http://people.clemson.edu/~tjfisher/mthsc302/>
<http://bb.clemson.edu/>
- Class Materials:** Calculator and Notes. If you need your text-book, you will be told in advance.
Text: Engineering Statistics 4th Edition by Montgomery, Runger and Hubele
Recommended: Probability and Statistics for Engineering and Sciences by Jay Devore
- Course Objectives:** To introduce students to statistical concepts and their applications in the real world, and to demonstrate that the methods of statistics, converting data into information, are vital tools for today's scientists and decision makers. To provide instruction and guidance toward identifying the correct technique, computing the appropriate statistics, and interpreting the results in a cogent manner.
- Topic Outline:** Introduction to Statistics, Data Summary and Presentation, Probability, Random Variables and Distributions, Estimation and Decision making, experimental design and empirical modeling.
- Grading:** At the end of the semester, the final grades will be compiled using the following formula:

Instrument	Method I
Homework, Quizzes and In-Class Assignments	35%
Statistical Project	15%
3 Tests @ 10% each	30%
Cumulative Final Exam	20%
Total	100%

Grades will be assigned on the typical 10-point scale (90+= A, 80-89= B, ...)

- Attendance Policy:** The pace of this class is such that it will not be advisable to miss any sessions. Students who have missed 5 days of class may be dropped from the class roll. If you know you will be absent, please inform me in advance. When you are absent, it will be your responsibility to contact another student for the notes. It is always a good idea to check with another student for any important announcements that may have been conveyed in class.

While attendance does not factor into your grade, I will often take attendance for my own records.

You are expected to be an active participant for the entire 50/75-minute class.

Indications that this is not happening include sleeping, surfing the web or instant messaging on your laptop, text-messaging on your cell-phone, studying for another class, etc.

Please turn your cell phone off before class.

Students are expected to wait quietly for 15 minutes after class is scheduled to begin. If I have not yet appeared the students are free to leave.

Homework: The schedule outline for the semester also contains *Homework* from each section covered. I expect each student to be able to successfully work every homework problem assigned. If you cannot, *this should be a warning to you* that there is some material you do not understand. It is *your responsibility* to either ask me about unworkable problems, or to work with another student to resolve the problem. Study groups and/or partners are encouraged can be very helpful in this class. In any case, *do not allow questions to go unresolved*, because your confusion will be compounded with time.

If homework is being collected for a grade, it will be announced several class periods before it is due. If collected, it will be graded for accuracy, not effort alone. Late homework will not be accepted unless permission is granted in advance.

Quizzes/In-class work: Quizzes and other in-class assignments (open notes) will be given periodically throughout the semester. Some may be announced on the schedule. Additional quizzes will be announced throughout the semester. If I feel students are not keeping up with the reading and homework assignments, weekly quizzes may be given.

Statistical Project: A statistics project will be assigned later in the semester. It will consist of a computational aspect as well as statistics applications. Details of the project will be announced later in the semester.

Letters of Accommodation: If you have a letter stating specific testing accommodations to which you are entitled, please come by my office to discuss the accommodations that you will need and to give me a copy of the letter. Even if you do not anticipate using any accommodations, it is a good idea to turn in the letter as soon as possible. *Please note that unless I have at least one week's notice I will be unable to provide any accommodation on an exam.*

Prerequisites: The prerequisites for this course are MthSc 206 (and hence 106 and 108). This is Departmental policy and is not negotiable. If you get an email regarding prerequisites, attend to it immediately.

Academic Integrity: As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a 'high seminary of learning'. Fundamental to this vision is a mutual commitment to truthfulness, honor and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Cheating is not exclusive to copying or plagiarizing someone else's work. Entering and storing information in your calculator is cheating! If I suspect this, I will spot check calculators before tests and quizzes or eliminate their use. For further information regarding academic integrity and how it is protected on the Clemson Campus, please refer to the material in the University Academic Regulations. The University policy on academic dishonesty will be strictly enforced.