

Course Syllabus  
**Math 2063-07: Introductory Statistics**  
Spring Semester, 2018  
University of West Georgia

**Instructor:** Dr. David G. Robinson, Humanities #221, 678-839-4137  
E-Mail: davidr@westga.edu  
Office Hours: *MWF* 11 – 11:50 a.m., 4 – 5 p.m.

**Class Meetings:** *MWF 8:50 -9:40 a.m., Boyd #303*  
These will consist of a combination of lectures, question-and-answer sessions, and general discussions. All reading will be assigned in advance of the meeting thereon. (See attached schedule.)

**Text/Resources:** Larose, Daniel T., *Discovering Statistics*, 2<sup>nd</sup> ed., W.H. Freeman & Co., NY, 2013, Chapters 1 - 10

Graphics/Stats calculator (**TI-83/84** etc.)

**Prerequisites:** high-school algebra

**Topics:** *Descriptive Statistics* (Chapters 1 - 4; ~ 4 weeks): Collection and measurement of data, random sampling, experiments, frequency distributions, graphs, averages, measures of variation, box plots, z-scores, empirical rule, scatter plots, least-squares regression, correlation, etc.

*Probability Theory* (Chapters 5 - 6; ~ 5 weeks): Probability, combinations and permutations, laws of chance, random variables, mathematical expectation, mean and variance, probability distributions (binomial, Poisson, normal, t-dist., etc.)

*Inferential Statistics* (Chapters 7 - 9; ~ 5 weeks): sampling distributions, Central Limit Theorem, confidence interval estimation, significance and hypothesis testing, comparison tests, etc.

**General Objectives:**

Besides developing and deepening your understanding of the topics mentioned above, there are some general skills you should improve upon along the way in order to be able to carry what you learn in this course into future courses of study and future work situations. These include:

- use of appropriate mathematical terminology and notation
- construction and use of tables and graphs
- appreciation of the role played by randomness in scientific experiments
- distinction between correlation and dependency
- detection of fallacies in statistical reporting and reasoning
- recognition of ethical problems in the collection and use of data
- translation of practical problems into statistical models and vice versa

**Evaluation Procedures:**

Your understanding of the material and your progress toward the aforementioned objectives will be evaluated on the basis of your performances on *three written tests* and a *comprehensive final exam*. (See attached schedule.) Homework problems from the text or from class will be assigned regularly but not collected or graded. These are for practice, self-evaluation and class discussion. Be prepared to discuss them as soon as possible after they are assigned. Some of them may appear as test problems.

**Evaluation Criteria:**

All graded work will be evaluated on the basis of

- accuracy of information (including calculations and use of mathematical symbols and terminology)
- depth and breadth of solutions (when applicable)
- logic and clarity of arguments (when applicable)
- neatness and clarity of presentation
- correctness of grammar and spelling
- thoroughness and timeliness of work
- intellectual honesty and creativity
- achievement of personal potential
- level of difficulty of the material

**Grades:** My scale for converting numerical grades (i.e., percentage points) to letter grades will be as follows:

*89-100 A, 77-88 B, 65-76 C, 50-64 D, below 50 F*

Your final grade will be based on your *test and exam scores* (~25 points each). However, you may also earn up to *three* points of 'extra credit' by maintaining a *superior record of attendance*, i.e., *one point per period of zero absences from class meetings between successive tests*. [Note: An *absence* means a class day in which you are not present (in body or mind!) for the majority of the class meeting, *regardless of the reason*.]

**Important Policies and Reminders:**

- Attendance is important! However, should you find for some reason that you must miss a class meeting, remember that you are still responsible for any and all material you may have missed during your absence.
- *Tests* must be taken at the prescribed times (see attached schedule), except by permission from the instructor. Such permission will be given only under the direst of circumstances (serious illness, e.g.) and *only if your request is granted before the test is over. Otherwise you will receive a score of zero for that test.*
- If you find yourself falling behind in the course, do not delay in seeking out assistance and/or advice from someone (the Instructor, a tutor, etc.) who is competent in the subject area and who has your best interests at heart! **The Math Tutoring Center is in Boyd #205 and is open daily at the posted times.**
- **All electronic correspondence between student and instructor about matters pertaining to this course (e.g., grades, replacement documents, etc.) should be by way of your UWG e-mail account.**
- I assume you will abide by the *SUWG Honor Code*. So will I! Anyone caught cheating - which means *representing someone else's work as your own* - will receive a grade of zero for that assignment/test.
- Please carefully read the information at the following link:  
[http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf)  
It contains important material pertaining to your rights and responsibilities in this class.