

Summer 2008

Elementary Statistics- MATH 1107/06 Syllabus

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Class meets: TTH 8:00-10:45, Burruss, Room 109

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All emails to the instructor should originate from the student's netid.student.kennesaw.edu account or from their WebCT Vista account. Our e-mail system has email filtering software that allows for blocking certain domains, one of which could be your commercial email provider. For more information on setup and use of your email account, go to <https://students.kennesaw.edu/email>

Web site URL: <http://math.kennesaw.edu/~agadidov>

Office hours: TTH 11:00AM -12:30PM; other times by appointment

Text: Intro Stats, 2nd ed. by Richard D. De Veaux, Paul F. Velleman, David E. Bock. New texts are accompanied by an access code to MyMathLab which allows students to access the publisher's online materials. An access code can be purchased separately, but you must compare your options. It may be cheaper to purchase the bundle rather than a used text and an access code.

Go to the [MyMathLab Installation Wizard](http://www.mymathlab.com/installwiz.html). (<http://www.mymathlab.com/installwiz.html>) Select your textbook (De Veaux, Intro Stats, 2e) from the drop-down menu and click Submit. Click the System Requirements link on the first page of the Wizard to review what you need. Proceed with the installation of the Plug-ins.

The minimum system requirements are reproduced below. MyMathLab supports the following operating system and browser combinations:

<i>With these operating systems:</i>	<i>You can use these browsers:</i>
Windows 2000, Windows XP, and Windows Vista™	Internet Explorer 6.0/7.0 Netscape 7.2 (Firefox, AOL, Netscape 8.0 and other browsers not supported)
Mac OS 10.2.5* and 10.3.9*	Netscape 7.2 (Firefox, AOL, Netscape 8.0 and other browsers not supported)
RedHat Linux v7.2**	Netscape 7.2 (Firefox, AOL, Netscape 8.0 and other browsers not supported)

* **Statistics courses:** To view certain course animations, Java™ Plug-in 1.4.1_07 is required.
** **Linux users:** TestGen and Shockwave are not supported on Unix.

Visit <http://www.coursecompass.com> and register for the **course ID: gadidov89679** (Elementary Statistics-MATH 1107/06). Registration to MyCourseCompass is **mandatory**. You have online materials that you can access only from this site. Homework

assignments are there as well. Once you registered, you can access the course from the MyCourseCompass Web site: <http://www.coursecompass.com/>
For support with the installation and any problems visit http://www.mymathlab.com/contactus_stu.html
Please do not contact your instructor for MyMathlab technical support.

Technology requirements:

- You will need a **good computer with a reliable network connection** and you need to be familiar with working in WebCT Vista, Microsoft Word and Adobe Acrobat Reader. Instruction on these technologies is available at <https://its.kennesaw.edu/booklets/index.php> (you would need your NetID to login).

In addition, we will use **Minitab 15** for statistical data analysis. Accounts have been set up for you and you will have remote access to Minitab. In order to access it remotely you have to install Citrix on your PCs. Instructions are available at <http://science-citrix.kennesaw.edu/Citrix/MetaFrame/auth/login.aspx>

A 30-day free trial Minitab 15 download is available at <http://www.minitab.com> .

- A TI83/83 (or TI83/84 PLUS) will be needed for certain probability computations and statistical analysis. Although Minitab can be used to perform these computations, the hand held calculator would prove easier in certain instances. Instructions on the use of Minitab and the TI calculator can be found in the **Technology** organizer on the Home page in Vista.

Prerequisites: MATH 1101 or MATH 1111 or MATH 1113

Course description: (reproduced from the KSU catalog description) Math 1107 at Kennesaw State University is a general education course for students who are not math or science majors. The course main objectives are the understanding, applying and communicating the techniques for gathering, summarizing, presenting and interpreting statistical data. The course emphasizes techniques and applications rather than derivation. Topics include methods of summarizing data, probability, statistical inference and regression. The course incorporates collaborative learning, oral and written reports and technology.

Learning outcomes: In this course students will acquire skills that will prepare them to

1. identify categorical and quantitative data and choose the proper graphs to display them;
2. use the measures of center and spread to describe quantitative data;
3. compare and contrast distributions of two or more quantitative variables;
4. decide and explain when a value is unusual using z-scores and the Normal model;
5. use scatterplots to analyze the association of two quantitative variables;
6. perform linear regression analysis and interpret the regression equation in the context of the model;
7. perform simple simulations and discuss the results in order to draw conclusions about the question being investigated;

8. use correctly basic probability techniques to describe a random phenomenon;
9. identify and interpret means, standard deviation and probabilities in the context of the Binomial and Normal models;
10. be able to build confidence intervals to estimate population parameters such as means and proportions from statistical data;
11. be able to perform hypothesis tests for population parameters and appropriately interpret the results;
12. be able to successfully use a software to describe, analyze, and perform inferential statistics;
13. incorporate the tools of descriptive and inferential statistics in reporting the results of a study.

Topic outline:

Part 1. Exploring and understanding data.

Part 2. Exploring relationships between variables: scatterplots and linear regression.

Part 3. Gathering data.

Part 4. Randomness and probability.

Part 5. From the data at large to the world at large: sampling distribution models, confidence intervals and hypothesis tests for proportions.

Part 6. Learning about the world: inferences about means.

Grading: The components that will contribute to your final grade are:

- Homework assignments
 - Are assigned in the CourseCompass tool;
 - There is one homework assignment for each chapter that is covered;
 - Most of them are graded electronically and grade is entered in the Grade book.
 - There are six due assignments: a due assignment covers several chapters
 - Some assignments will be given in Vista and you will have to turn them in together with the homework that is worked in CourseCompass.
 - Check the **Course Calendar** found in this module for deadline due dates
- Discussion board assignments and class participation: There will be a number of worksheets that I will either bring to class or you will have to look at before class and write comments on the discussion board in Vista. The worksheet will be posted on Vista.
- Quizzes
 - Seven quiz grades will contribute to your final grade. There may be more than seven quizzes given in which case only the best seven will count toward your grade.
 - Some quizzes may be assigned in CourseCompass and will be electronically graded
 - No make ups will be given.

- Tests
 - There will be a total of 3 semester tests and a final comprehensive test
 - No make-ups or early tests will be given unless there are exceptional circumstances.
 - Tentative dates: Exam 1: Thursday, June 19
Exam 2: Tuesday, July 1st
Exam 3: Thursday, July 17
Final exam Thursday, July 24, 9:00-11:00 am

- Projects
 - There are two projects on which you have to work in teams of at most three
 - Detailed information can be found in the **Projects** module.
 - The first project will assess your ability to apply the techniques and tools of descriptive statistics and regression analysis to a real world data set
 - The second project will assess your ability to perform inferential statistics and state conclusions based on confidence intervals and/or hypothesis testing techniques.
 - Deadlines for stages of projects will be listed in the **Course Calendar**
 - Contact me at any time during the phases of the project to make sure you are doing the right thing.

- Grading scale:

Item	Points each	Total	Grade	Percentage	Points
Homeworks(6)	10	60	A	90% and above	562.5-625
Quizzes(7)	10	70	B	80% to 89%	500-562.5
Discussions		20	C	70% to 79%	437.5-500
Tests(4)	100	400	D	60% to 69%	375-437.5
Project I	55	55	F	Below 60%	Below 375
Project II	20	20			
Total		625			

disAbled Student Support Services: Kennesaw State University welcomes all students, recognizing that variations of abilities contribute to a richly diverse campus life. A number of services are available to help students with disabilities with their academic work. In order to make arrangements for special services, students should visit the office and make an appointment to arrange an individual assistance plan. Students who wish to participate in an activity or program offered by the university and need accommodations should contact the office sponsoring the program at least five days prior to the program so that arrangements can be made. http://www.kennesaw.edu/stu_dev/dsss/dsss.html

Academic misconduct: Every KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section II of the Student Code of Conduct addresses the University's policy

on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the University Judiciary Program, which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimal one semester suspension requirement.

Withdrawal policy:

Students who find that they cannot continue in college for the entire semester after being enrolled, because of illness or any other reason, should complete an official withdrawal form. Forms may be obtained from the Office of the Registrar.

Students who officially withdraw from the university with the approval of the registrar before mid-semester (including registration days) will be assigned grades of "W", which will not affect their grade point average. Students who officially withdraw after mid-semester (and before the last three weeks of the semester) will receive a "WF," which will be counted as an "F" in the calculation of the grade point average. Those students who stop attending classes without notifying someone will be assigned failing grades, which jeopardize their chances of future academic success.

Students may, by means of the same withdrawal form and with the approval of the university Dean, withdraw from individual courses while retaining other courses on their schedules. This option may be exercised up until June 25, 2008.

This is the date to withdraw without academic penalty for Summer Term, 2008 classes. Failure to withdraw by the date above will mean that the student has elected to receive the final grade(s) earned in the course(s). The only exception to those withdrawal regulations will be for those instances that involve unusual and fully documented circumstances.

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