

STT 2810-101 – Introduction to Statistics – Spring 2008

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<http://www1.appstate.edu/~arnholta>
- Course Materials:** De Veaux, Velleman, and Bock (2008). *Stats: Data and Models, Second Edition*. Pearson, Boston.
- Student Access Card: Must be purchased on-line
(<http://www.coursecompass.com>) or from the ASU bookstore
- Course Compass ID:** **arnholt34402**

This course is being taught with the course management system CourseCompass. Homework, quizzes, and tests will all be administered through CourseCompass. Assignments, course objectives, and other material pertaining to this class can all be found by logging into the course **arnholt34402**. Objectives for this course can also be found by clicking appropriate links on my web page.

Grade Composition:	Homework assignments (15)	25%
	Quizzes (15)	25%
	Tests (2)	20%
	Final	30%

Homework and quizzes may be taken an unlimited number of times prior to the closing date and time of an assignment. The highest grade you achieve on both homework and quizzes will be recorded in the CourseCompass grade book. For each chapter covered, with the exception of chapter one, there will be a homework and quiz for that chapter. Before you can take the chapter quiz, you must score at least 60% on your chapter homework. **Tests:** If you are unable to come to class for a scheduled exam because of an absence excused by a University directive, the final will count for those points (that is, NO MAKEUPS). The final exam will be administered according to Spring 2008 Exam Schedule available at <http://www.registrar.appstate.edu/calendar/spring08exam.html>.

Undergraduate Catalogue Description: **STT 2810** - An introduction to statistical problem solving and methodology. Topics include tabulation and graphical representations of univariate and bivariate data, probability, statistical distributions, confidence intervals, and hypothesis testing. Emphasis will be on conceptual understanding and interpretation of results rather than theoretical development. Statistical software will be utilized in the analysis of data and in the development of statistical and probabilistic concepts.

Attendance Policy: As stated in the ASU Undergraduate Bulletin, students are expected to attend all course meetings and are completely responsible for their own attendance. There are 42 course meetings in the Spring 2008 semester, plus a final exam period. Any student who is absent for any reason is completely responsible for all material covered in class, including (but not limited to) lecture topics that are not included in the textbook, handouts, announcements, and assignments.

Classroom Behavior Policy: Each class period is fifty (50) minutes long. Students are expected to be on time and not to leave early unless the instructor has been given prior notification. Every student should be prepared to participate at the beginning of class and should not begin to pack up at the end of the period until the instructor is finished. Any conduct that disrupts instruction (e.g., cell phone use, unnecessary chatter, computer use other than class work) is disrespectful to and disruptive of both other students and the instructor. First offenses will be dealt with by the instructor. Subsequent behavior issues will be referred to the Office of Student Conduct. As a courtesy to everyone, turn off all cell phones and beepers during class. Failure to do so may lead to confiscation or prohibition of such items for the duration of the course as per ASU policy.

Academic Integrity: Academic integrity is a very important part of a college education. All students are expected to be familiar with and to abide by the ASU Code of Academic Integrity. The Code states that by applying for admission, students attending Appalachian State University agree to the following (<http://studentconduct.appstate.edu>):

- (1) Students will not lie, cheat, or steal to gain academic advantage; and
- (2) Students will oppose every instance of academic dishonesty.

Infractions will be dealt with immediately and strictly according to the established ASU policies (<http://judicialaffairs.appstate.edu/>). Possible violations include (but are not limited to): cheating; fabrication and falsification; plagiarism; abuse of academic materials; and complicity in academic dishonesty.

Putting your name on any work you submit for grading (or logging into CourseCompass with your ID) is considered to be verification that you have complied with the Code. With regard to collaboration in this class, you may discuss computer lab assignments and the homework problems with other students, tutors, or math lab personnel. Quizzes and/or exams must be taken individually with no outside assistance.

Expectations: Prior to coming to class, you should read the indicated sections/pages listed in the reading assignment. To maximize your understanding of the class activities, you should take notes on the reading material prior to coming to class, paying particular attention to the objectives listed for that section. To do well in the course, you **MUST** read the material prior to coming to class, paying particular attention to the stated objectives. To help you in the course, I have explicitly stated course objectives. As a minimum, you should read and attempt the first half of all assigned problems prior to coming to class. We will use class time to discuss challenging areas of the reading and homework problems.

If you have not read the assigned sections and attempted the assigned problems, you will more than likely feel lost, be very confused, and have a terrible experience in this course. I DO NOT WANT THAT TO HAPPEN! You should expect to spend two hours outside of class for every hour you are in class. If you are not comfortable or have not done well with mathematics/statistics courses in the past, you will need to spend more than two hours preparing for each class meeting. If you do not have the time to dedicate to this course, please DROP now and take the course when you have the time. Please, do yourself a favor and take this course only if you have the time to devote to the course. I am here to help you through this material, and I want to see you succeed. I realize that many students work during the school year to finance their education; however, that fact does not change the requirements of this (or any) course. Budget your time accordingly, and pace yourself so that you can keep up with the course and complete all your work on time.

General Policies:

- ☺ Turn off cell phones, beepers, etc. when entering the class.
- ☺ DO NOT use the computers to play games, send email, etc. during class! If I see you using the computers in an inappropriate fashion you will be kicked out of class.
- ☺ Late work is not accepted for any reason.
- ☺ Projects that are to be turned in must be typed and answered in complete sentences with all supporting code and graphs presented. A word processor should be used to do final reports and all graphs should be done in R. You will be doing extensive cut/paste operations.
- ☺ Missed work earns a zero except for University directives. If you will be absent on a test date, no make up work will be given.
- ☺ You are responsible for all content and work if you miss a class. Be sure to contact me *before* any class you must miss by either phone or e-mail. If I do not know why you are missing, no accommodation of any type is available to keep you from earning a zero on whatever is done during class that day. CONSIDERATION COUNTS!
- ☺ Please make an appointment to come to office hours. This allows me to make sure that I will be free and available when you want to come. If you have not made an appointment to see me, I may or may not be able to help you right then.
- ☺ The Academic Integrity Code is in force at all times.

Guidelines for Success:

- ☺ Attend all classes. Be ON TIME with readings performed and homework complete.
- ☺ Ask questions on problems as soon as you need help. It is much easier to fix misconceptions or problems in understanding when they occur rather than days or weeks later.
- ☺ Expect to read all material at least twice: once before it is covered in class and once after at a MINIMUM! It is also helpful to have time to reread before a test.
- ☺ Complete all homework problems.
- ☺ Save the scripts you write/use to solve your homework problems.
- ☺ Take notes in class with Tinn-R. Scripts are provided for solving most problems, and annotating these scripts during class is an effective note taking technique.
- ☺ Visit office hours with questions on at least specific sections. It is your responsibility to know what sort of problem or what concept is giving you trouble. Be sure to have read all of the text, handouts, and lab manual that cover your area of difficulty before you come to see me.
- ☺ Become familiar with the software. Keeping a running reference sheet of commands/menus and their uses best does this.
- ☺ Learn terms as they occur. Statistics has its own language in some respects, and a running definition/formula sheet will be most helpful.

☺ REMEMBER: Your teacher is here to HELP YOU!!! We want to work together to have each one of you do well this semester and learn much useful information about statistics. If you put in the time to work problems, ask questions, and visit the stat lab and me OFTEN, you should have no serious difficulties.

Tentative Course Schedule:

Date	Lecture #	Chapter	Date	Lecture #	Chapter
Mon. 1/14/2008	1	1	Mon. 3/10/2008	Break	Break
Wed. 1/16/2008	2	2	Wed. 3/12/2008	Break	Break
Fri. 1/18/2008	3	3	Fri. 3/14/2008	Break	Break
Mon. 1/21/2008	No Class	No Class	Mon. 3/17/2008	23	12
Wed. 1/23/2008	4	3	Wed. 3/19/2008	24	14
Fri. 1/25/2008	5	3	Fri. 3/21/2008	25	14
Mon. 1/28/2008	6	4	Mon. 3/24/2008	BREAK	BREAK
Wed. 1/30/2008	7	4	Wed. 3/26/2008	TEST 2	TEST 2
Fri. 2/1/2008	8	4	Fri. 3/28/2008	26	18
Mon. 2/4/2008	9	5	Mon. 3/31/2008	27	18
Wed. 2/6/2008	10	5	Wed. 4/2/2008	28	18
Fri. 2/8/2008	11	5	Fri. 4/4/2008	29	19
Mon. 2/11/2008	12	6	Mon. 4/7/2008	30	19
Wed. 2/13/2008	13	6	Wed. 4/9/2008	31	19
Fri. 2/15/2008	14	6	Fri. 4/11/2008	32	20
Mon. 2/18/2008	TEST 1	TEST 1	Mon. 4/14/2008	33	20
Wed. 2/20/2008	15	7	Wed. 4/16/2008	34	20
Fri. 2/22/2008	16	7	Fri. 4/18/2008	35	21
Mon. 2/25/2008	17	7	Mon. 4/21/2008	36	21
Wed. 2/27/2008	18	8	Wed. 4/23/2008	37	21
Fri. 2/29/2008	19	8	Fri. 4/25/2008	38	23
Mon. 3/3/2008	20	8	Mon. 4/28/2008	39	23
Wed. 3/5/2008	21	11	Wed. 4/30/2008	40	23
Fri. 3/7/2008	22	12	Mon. 5/5/2008	EXAM	3-5:30p