Spring 2014 Stat 145 - 006 , 012& 022: Introduction to Statistics (as of 01/16/14)

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| **Instructor:** | Gregory Unnever  |
| **Office:** | Humanities 328 |
| **Office Hours:** | M & F 1:00-1:50 pm, Main campus, Humanities 328; W 1:00-1:50pm, 3rd floor DSH “tutor table”  |
| **E-mail:** | gunnever@aol.com, |
| **Web Sites:** | <http://www.math.unm.edu/OLD/courses/stat145/index.php> , is the Stat Home page. This web site contains homework solutions, practice exams and solutions, as well as tables from the text. Also, see [www.unm.edu/~gregu](http://www.unm.edu/~gregu) for specific information on upcoming tests, syllabus, power points, etc.  |
| **Text:****Online Program:****(Mandatory)**  | *Essential Statistics (2nd Edition)* by Moore, Notz and FlignerStatsPortal is the online text companion (includes e-book); you must register at StatsPortal , NLT the 2nd week of the Class. After purchasing an activation code (at the UNM bookstore or from the publisher at: <http://courses.bfwpub.com/ess2e.php> ) follow the prompt to register at the same link. When using StatsPortal, use only Internet Explorer or Firefox; other browsers may appear to function, but your work may not be recorded or graded.  |
| **Calculator:** | A scientific calculator may be used on all homework and exams. A calculator with statistical functions (mean, standard deviation, etc.) is recommended but not required. |
| **Grading:** | On-line StatsPortal Assignments: 10%, In-class Quizzes: 5% , Test 1: 20% , Test 2: 20%, Test 3: 20%, Final Exam : 25%  |
| **Extra Credit****Homework****Attendance****Missed Exams****Exam Cards****Grades****Deadlines****Behavior****Accessibility** | * There will be no provision for extra credit except as follows: you may use your percentage grade on the Final Exam to apply to the lowest percentage grade on any of your first three tests. For example, if your first three test percentages are 88%, 61% and 79%, and you achieve an 82% on your final exam, the 61% on your second test will be raised to 82%. NOTE: A test not taken is not eligible to be upgraded and will remain a 0% grade. If your final exam grade is your lowest exam grade, it will count 25% of your course grade. ALL EXAMS – FINAL INCLUDED - MUST BE TAKEN. Exams will not be curved or re-worked for extra points.
* Homework will be assigned on StatsPortal. Due Dates will normally be 1-2 days after the material is covered in class. You should check the StatsPortal web site daily, for due dates, announcements , etc.
* Attendance is mandatory. If you have three or more absences you may be dropped from the course. Tardiness or early departure may be regarded as an absence. It is your responsibility to drop the course if you stop attending. A failing grade will be assigned if you stop attending and do not drop. Date of “last attendance” will be submitted along with the F
* If you know you are going to miss an exam you must make prior arrangements with me in order to take the quiz or exam before the scheduled date. If you miss an exam due to an emergency you must provide documentation of the emergency (doctor's note, police report, etc.) to take a make-up exam, within 3 days. Failure to do so, will result in a 0% assigned.
* A 3-inch by 5-inch note card is permitted on each of the first three exams for formulas. A 5-inch by 8-inch card is permitted on the final exam. Your notes must be hand-written; use of both sides of the note card is permitted.
* To get full credit on graded work you must address all mathematical components presented by the problem, showing all steps and calculations. The use of proper notation, well-structured procedures, and legibility will be taken into account when assigning points. Students that withdraw after the end of week 3 will receive a grade of “W”. If you do not withdraw, you will receive a letter grade of A+, A, A-,B+, B, C+, C, D or F (but not W), based on your “overall % grade.
* The Department of Mathematics and Statistics adheres to all deadlines published by the Office of the Registrar in the schedule of classes. Deadlines are posted in the course schedule on the second page of this syllabus.
* You are responsible for all material covered in class, in assigned readings, and on homework assignments. Not all material on tests will necessarily be covered in class, but will be in the book. Samples of past exams are available on the web site.
* The use of cell phones, headphones, etc. is not permitted in class or exams.
* According to the Code of Conduct as stated in the Policies and Regulations for UNM, student activities that interfere with the rights of others to pursue their education or to conduct their University duties and responsibilities will lead to disciplinary action. This includes any activities that are disruptive to the class and any acts of academic dishonesty. Students are expected to behave in a courteous and respectful manner toward the instructor and their fellow students. Students may be dropped from a class for inappropriate behavior.
* We will accommodate students with documented disabilities. During the first two weeks of the semester, those students should inform the instructor of their particular needs.
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**Spring 2014** - **Stat 145** **Schedule (subject to change if necessary)**

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| Dates | Material Covered | Notes / Deadlines |
| 1/ 221/ 24  | Intro. Ch. 1 Picturing Distributions with GraphsCh 1 (cont)  | Jan 20 - HolidayJan 21 – Instruction Begins |
| 1/ 271/29-1/31 | Ch 1 (cont) & Intro to Ch 2 Ch. 2 Describing Distributions with Numbers | Jan 31 – Last day to add courses or change sectionsJan 31 – Last day to change grade mode (lobo web) |
| 2/ 3-2/7 | Ch. 3 The Normal Distributions | Feb 7 – Last day to drop without a grade |
| 2/ 102/12 -2/14 | **Exam 1 (Ch. 1 – 3)** Ch. 4 Scatterplots and Correlation | Feb 14 – Last day to change grade mode (in person) |
| 2/172/19-2/21 | Ch. 4 (cont’d)Ch. 5 Regression |  |
| 2/242/26-2/28 | Ch. 5 (cont’d)Ch. 8 Producing Data: Sampling |  |
| 3/ 3-3/53/7 | Ch. 9 Producing Data: Experiments**Exam 2 (Ch. 4, 5, 8, 9)** |  |
| 3/10-3/123/14 | Ch. 10 Introducing ProbabilityCh. 11 Sampling Distributions |  |
| 3/17-3/21 |  | Mar 16-22 – Spring Break |
| 3/ 24-3/263/28 | Ch. 11 (cont’d)Ch. 14 Confidence Intervals: The Basics |  |
| 3/314/2-4/4 | Ch. 14 (cont’d)Ch. 15 Tests of Significance: The Basics |  |
| 4/74/94/11 | Ch. 15 (cont’d)Ch. 16 Inference in Practice**Exam 3 (Ch. 10, 11, 14-16)** |  |
| 4/14-4/164/18 | Ch. 18 Inference About a Population MeanCh. 19 Two-Sample Problems  | Apr 18– Last day to withdraw without dean’s approval |
| 4/ 214/23-4/25 | Ch. 19 (cont’d)Ch. 20 Inference About a Population Proportion |  |
| 4/284/30-5/2 | Ch. 20 (cont’d)Ch. 23 Two Categorical Variables |  |
| 5/5-5/9 | Course Review | May 9 – Last day to withdraw with dean’s approval |
| 5/12 | **Final Exam 7:30 am** | **May 12 – Final Exam, 7:30 AM, ROOM TBD**May 16 – Last day to report removal of incomplete |

**Suggested Problems from the Text (solutions posted on the Stat web site)**

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|  Chapter | Problems |
| 1 | 1, 3, 9, 10, 12-19, 21, 27, 32, 35, 36 |
| 2 | 1, 2, 4, 6-8, 10-12, 15- 21, 23, 25, 26-27, 39 |
| 3 | 2-4, 7, 9, 11, 13-21, 23, 31, 32, 37 |
| 4 | 1, 3, 5 ,8, 12-18, 19 ,21, 22, 27, 28-30, 33 |
| 5 | 1, 3, 4, 6, 7, 11, 13, 15-21, 23, 27-29 |
| 8 | 3, 5, 7, 11, 13-19, 21, 23, 27, 28, 30, 33, 36, 39 |
| 9 | 1, 3, 5, 6, 9, 11, 13, 15, 17-24, 33, 37, 40 |
| 10 | 5, 6, 7, 10-13, 17-25, 31, 40, 41, 45 |
| 11 | 2, 3, 7, 8, 10-16, 17, 19, 23, 28, 29, 31 |
| 14 | 3, 4, 6, 7, 8-15, 16, 18, 22 |
| 15 | 2, 4, 5, 6, 7, 14-19, 22, 24, 34, 37 |
| 16 | 2, 8, 9, 11 |
| 18 | 1-3, 7, 9-13, 15-21, 26, 30 |
| 19 | 1, 2, 6, 11, 13-19, 22, 24-27 |
| 2023 | 1, 3, 5, 9, 10, 11, 12-19, 33-363, 5, 7, 8 |

Note: Chapters 7, 17, and 22 are review chapters. While not assigned, you are encouraged to review them.