Instructor: Dr. Amy Nail
Email: nail “at” stat “dot” ncsu “dot” edu: put ST372 in the subject line
Office: SAS Hall 5232
Phone: 515-1926
Instructor office hours: Tues, Thurs 9:45-10:45 or by appointment
Class time: Tues, Thurs 8:30-9:45 a.m.
Class location: HA181
Course location: http://www.stat.ncsu.edu/people/nail/courses/ST372/

TA: Woon Sung Jang
TA office hours: SAS Hall 1101
TA office hours: TBA—I will post on website.
TA email: wjang3@ncsu.edu

Course prerequisite: ST371 or instructor permission.
If you have not had ST371, but have had some other stat course, send me an email with subject ST372 Prereq, and tell to me what course you have had. If it was at NCSU, just give me the number. If it was elsewhere, tell me what topics you’ve covered. Did you use integration to calculate probabilities in your prerequisites?

Scope of course:

Text:
Probability and Statistics for Engineering and the Sciences, 8th ed., Jay L. Devore, $216.25 (maybe cheaper online)
- I may assign problems from this book that will be taken up and graded.
- 8th ed is exactly like 7th ed in content, but not in problems at the end of sections.
- Not required.
- Two copies on reserve in the library.
I feel your pain! Unfortunately, when a new edition comes out, we can’t use the old edition, because the publisher doesn’t print it anymore. We cannot assume that used copies will meet the needs of all students.

Required materials:
- Graphing calculator with statistics capabilities
  - TI83, 83plus, 84, 89—these are the ones I’ll support and provide how-to’s for.
  - Maybe 85 or 86, you’ll have to check for yourself if they do stats, or if you can download a stat package to do stats, and you’ll have to get hold of the manual for yourself and be responsible for figuring out how to use them.
  - You will never regret making this investment
- JMP statistical software—free to ncsu students via http://www.ncsu.edu/software
  - See link on website.

Attendance, participation, and communication:
Regular class attendance is strongly encouraged. I assume that if you are enrolled in this class, you have no scheduled conflicts—that is, you are able to attend every day unless you are too ill to do so or unless your dependent is ill. If you miss class for any reason, please make arrangements with another student to obtain the notes and materials that were covered that day. Also check the course website for daily updates. Additionally, students should check their email regularly to receive course announcements.
Grades

<table>
<thead>
<tr>
<th>Item</th>
<th>Percent of final course grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments average</td>
<td>20</td>
</tr>
<tr>
<td>Two Factor Anova Experiment Design Project</td>
<td>20</td>
</tr>
<tr>
<td>Test 1:</td>
<td>20</td>
</tr>
<tr>
<td>Test 2:</td>
<td>20</td>
</tr>
<tr>
<td>Final Exam (cumulative)</td>
<td>20</td>
</tr>
</tbody>
</table>

Thursday, Dec 15, 8am, same classroom

Calculation of grades:
- Two Assignment grades will be dropped when computing the Assignment average.
- If the Final Exam grade is higher than any one of the Midterm Exam grades, the Final Exam grade will replace the lowest Midterm Exam grade.
- Students achieving >=90% will receive at least an A-; students achieving >=80% will receive at least a B-; students achieving >=70% will receive at least a C-
- Incomplete (IN) grades are given only as specified in university regulations.

About late and early Assignments and Exams:
- “Assignments” include homework, in-class assignments, or quizzes which may be announced or unannounced. Assignments will be collected for grading at the instructor’s discretion, without prior notification to students. For some assignments, a subset of problems will be chosen for grading. **No late assignments will be accepted.**
- If a student misses a Test, the Final Exam grade will replace the Test grade. **No early or makeup Tests are given.**
- If a student misses the Final Exam, a makeup will be allowed only if the exam was missed for a(n) (documented) excused absence. The following website gives definitions of excused absence: [http://www.ncsu.edu/policies/academic_affairs/courses_undergrad/REG02.20.3.php](http://www.ncsu.edu/policies/academic_affairs/courses_undergrad/REG02.20.3.php)
- No early final exams will be given.

Schedule:
The following is a rough schedule of the topics covered in this course. This schedule may be adjusted.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>Experiment Design</td>
</tr>
<tr>
<td>3, 4</td>
<td>Sampling Distributions (5.3 – 5.5) (review from ST371)</td>
</tr>
<tr>
<td>5</td>
<td>Chapter 6: Point Estimation</td>
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<tr>
<td>6, 7</td>
<td>Chapter 7: Confidence Intervals (Single Sample)</td>
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<tr>
<td>8, 9</td>
<td>Chapter 8: Hypothesis Testing (Single Sample)</td>
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<tr>
<td>10</td>
<td>Chapter 9: Inference for Two Samples</td>
</tr>
<tr>
<td>11, 12</td>
<td>Chapters 10, 11: Analysis of Variance</td>
</tr>
<tr>
<td>13, 14</td>
<td>Chapter 12: Regression and Correlation</td>
</tr>
<tr>
<td>14</td>
<td>[Chapter 13: Multiple Regression++ as time permits]</td>
</tr>
</tbody>
</table>

Auditing:
I do not allow audits. Make a decision. Take the course and fully commit to doing all assignments, projects and exams, subjecting yourself to the pressure of being graded to motivate you to learn the material, or don’t take the course.
Students with disabilities: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with Disability Services for Students at 1900 Student Health Center, Campus Box 7509, 515-7653. http://www.ncsu.edu/provost/offices/affirm_action/dss/.

Academic Integrity: Cheating will not be tolerated. You may work together on homework assignments, but simply giving answers to another student or receiving answers from another student is cheating. You must write up solutions on your own. No collaboration of any sort is allowed during tests or the final exam. Using notes, the textbook or another student during a test or exam is cheating. See the university’s policy on academic integrity at http://policies.ncsu.edu/policy/pol-11-35-1.