MA180 and MA418 STATISTICS, Fall 2013

Section ZNC

Tue/Thur, 8:00 AM, Tuesday in HHB 202, Thursday in EB 145
First day of class: Tuesday August 27, 2013
Last day of class: Thursday December 5, 2013
Final Exam: Tuesday December 10, 2013, 8:00 AM to 10:30 AM

Instructor
Alzaki Fadlallah
Room 472 Campbell Hall, phone 934-2158
E-mail: zakima99@uab.edu

Assistants
to be determined

Office Hours
Tuesday, 9:30 AM until 11:30 AM, in HHB 202 (MLL).

Textbook
Reading the textbook is required. You can elect to read the textbook online, but most people do not do well reading in that format.

Book packaged with access code. You should find copies of the text in the bookstore that are shrink-wrapped with a course access code. You will need the course access code.

Book packaged without an access code. If you purchase a text that is not shrink-wrapped with an access code, you will have to purchase a stand-alone access code from the publisher at www.coursecompass.com.
(It is also possible to purchase a stand-alone access code in the bookstore.)

Students from Spring or Summer semester 2013: If you have previously purchased an access code for this Statistics book, it may be possible to use it again. Click “Enroll In Another Course” at MyMathLab (again, www.coursecompass.com).
The least expensive option is usually the book shrink-wrapped with the access code.

Fold-Out Card
The book comes with a tear-out, fold-out card at about page 62.
This card includes tables of distribution and statistical formulas. You will need this card to work problems in the course. The card is the only reference document that you can use during testing. If you purchase a used book the fold-out card will probably be missing. The fold-out card should be brought to class every day, along with a notebook for note-taking purposes.

On-line book
Note that an on-line version of the book is available to you by virtue of purchasing the access code. However, it is much more difficult to use the on-line version of the book, and more difficult to access the fold-out card that comes with the book. Also, the on-line version of the fold-out card is not available to you during testing.
Laptops
The use of laptop computers is not permitted during course lectures. Rather, students are expected to engage with the instructor and take paper and pencil notes.

Cell phones
All cell phones, iPhones, iPads, and laptops must be turned off and put away during lectures. **Texting during lectures is strictly forbidden.** Students found to be texting during lectures will be asked to leave the classroom. In this event, students will not receive lecture participation points for that day.

Calculator
A good calculator is important. Calculators will be used for in-class work, homework, quizzes, tests, and the final exam. It is strongly recommended that you get a TI-83 Plus or TI-84 Plus. This type of calculator is described in the textbook and will be used in class by the instructor. The on-line homework and testing system has a statistical software package called STATCRUNCH. Students can also use this program to do homework and for assistance on tests.

During testing, about half the problems will have relatively simple mathematics and can be done **by-hand**; that is, without using the sophisticated capabilities of your calculator. About half will be done using your calculator. These problems will be difficult or time-consuming to be done without a good calculator.

Note: you can use a TI-89 or a TI-92, which are even better (more powerful), though a bit more complicated and more expensive. One may be able to survive with a cheaper model, such as the TI-36, but you assume all the difficulties.

If you need help with calculators other than TI-83/84 Plus then you can see your instructor during office hours, and he or she will try to help (to the best of their knowledge). Calculators other than TI-83/84 Plus will not be discussed in class. Generally, students must take individual responsibility for knowing how to operate their calculators. Note that often you can use Google to search for instructions on using your calculator. Be sure your calculator batteries are good before each test.

Make-ups
There are no make-ups for missed homework and quiz assignments. This is because they can and should be completed ahead of time. A missed test can be excused for a serious, verifiable circumstance, and only if the student provides adequate written documentation. To appeal a missed test, go to the Math Department office in Campbell Hall room 452 and complete the appeal form. Appeals must be received no later than one week after the missed test, by 5:00 PM on that day. If the appeal is approved, your instructor will schedule a make-up time and place.
**Tests**
There will be four 50-minute tests and a 2½ hour final exam. The final exam will be comprehensive. The tests and final exam can all be completed with reference to the tear-out, fold-out card taken out of the textbook. The textbook itself cannot be used. You can use your calculator during testing, but not laptops.

**Homework**
The homework exercises and quizzes are done using a computer program named MyMathLab. In order to register for the on-line portion of the course you will need the access code that comes packaged with the text (or that you purchased on-line, if your copy of the text did not include the shrink-wrapped access code). You can use the computers in the UAB Math Learning Laboratory in room 202 of Heritage Hall, computers in the Library’s ETS facility, or you can use your own computer with an Internet connection. Be aware if you are using your own computer, you may have to download the *Flash* plug-in in order to do the homework assignments. Instructions for downloading the plug-in will be displayed when you access the homework site. The site for registering to do homework and for completing the assignments is [www.coursecompass.com](http://www.coursecompass.com).

**Browser**
The Firefox or Chrome browsers may on occasion give you a more reliable connection to the homework website than will Internet Explorer.

**Account**
When you create an account at CourseCompass, you will need to choose a login name, password, and provide your e-mail address. **IMPORTANT:** Your *login name* **MUST** be the same as your *complete official UAB email address*. Example: student@uab.edu. Do not abbreviate. Do not leave out the “@uab.edu” part. Do not use any non-UAB email address (like gmail, aol or uabmc) as your login name. This is a Math Department standard. (When you supply an email address for your CourseCompass account, you are free to give any email address, such as Google Mail or AOL Mail, etc.)

*If you choose a different login name (other than your complete official UAB email address), your homework and quiz scores will not be transferred from CourseCompass to the UAB on-line grade database, and the absence of these scores will lower your grade significantly.*

Make up your own password. If you are a returning student, use your existing CourseCompass account, do not create a new account. But if your existing login name is different from your complete official UAB email address, change it.

**Course ID**
You will need this course ID: fadlallah10229
Quizzes

Like the homework, quizzes are taken on-line. Each quiz can be taken two times (the highest grade will count). **Do not hit the BACK button on your browser when taking a quiz.** This will end your quiz and you will not be able to get back into it. If you think your computer or network connection is not reliable, you should take your quizzes in the UAB Math Learning Lab. Quizzes generally have a 30-minute time limit. They are open-book. Students are strongly advised to not wait until the last minute to complete homework and quizzes. Problems occurring at the last minute are the responsibility of the student. **If your quiz is interrupted for any reason and the system says that you need the instructor’s permission to return to the quiz, email the instructor as soon as possible.**

Due dates

Homework problems can be worked **any number of times** until they are correct. Quizzes can be worked two times (the highest score will count). **There are no extensions of homework and quiz deadline dates,** so plan to complete them ahead of schedule. Homework sets are usually due by 10:30 PM and quizzes on the same day by 11:45 PM. The exact due dates are shown on your course schedule sheet, and on the coursecompass website.

Participation

Classroom and lab participation is required. At each class meeting there will be a roll to be signed by the students. Points are awarded for on-time attendance (+3.6). Zero points are awarded for missed classes. If the course instructor accepts a written excuse for an absence, the points awarded will be reduced to +1.8. (Students arriving late get zero or some portion of 3.6, at the discretion of the instructor.)

Course Grade

based on points earned (not on a percentage)

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Homework</td>
<td>100</td>
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<tr>
<td>Quizzes</td>
<td>100</td>
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<tr>
<td>Four tests</td>
<td>400</td>
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<td>Final exam</td>
<td>300</td>
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<tr>
<td>Lecture and participation</td>
<td>100</td>
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<td>Total possible points</td>
<td>1000</td>
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Letter Grade

based on points earned

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>880 to 1000</td>
<td>A</td>
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<tr>
<td>750 to 879</td>
<td>B</td>
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<tr>
<td>620 to 749</td>
<td>C</td>
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<tr>
<td>500 to 619</td>
<td>D</td>
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<tr>
<td>Below 500</td>
<td>F</td>
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**Note:** 749 points is a C, not a B.

Extra Credit

There are no extra credit assignments in this course.
Grade Access  Official student grades are maintained in the Math Department grade database (a.k.a. MADDIE). To access your grade record, go to www.uab.edu/mathematics and click on Student Resources then Check grades. You will need to enter your BlazerID and password.

Grade Review  Students are asked to review all grades for accuracy immediately after they are posted. Mid-term tests should be reviewed as soon as possible, but no later than the date of the next test. Tests that are not reviewed on this schedule are not eligible for review. All questions involving homework grades, quiz grades, test grades and participation points must be resolved before the final exam. Once the final exam is taken the course is complete, and no further review of in-term grades is permitted.

MA418  MA418 students must also submit a pass/fail project before the end of the semester. Information regarding the project will be distributed later in the semester. In support of developing writing skills, the project will include a report describing their observations, presenting logical analysis, and making conclusions.

Final Exam  The final exam is Tuesday December 10th, from 8:00 AM until 10:30 AM in the Lab. The exam is comprehensive.

Email  Information about the course (changes to assignments, reminders, schedules, etc.) will be distributed to students using their blazerID email address. Each student is required to access their UAB email account frequently, as these communications represent official university business. This is a requirement for all UAB students. For UAB email account assistance, send an email to userservices@uab.edu, or call 934-3540.

Withdrawal  The last day to withdraw from the course with a grade of “W” is October 25, 2013. The permission of the instructor is not required.

Aims of the course  This course supports the development of quantitative literacy. Upon successful completion of the course, a student can:

- handle data sets, construct and interpret tables, graphs, and schematic representations of mathematical relations
- identify a problem and translate verbal descriptions into mathematical form
- compute statistics and evaluate significance of empirical observations
- draw conclusions based upon probability laws and empirical data
- test hypotheses and validate a model based upon empirical evidence
- communicate results in a manner appropriate to the audience in writing or using visual aids (graphs, charts, schemata).
<table>
<thead>
<tr>
<th>Week Dates</th>
<th>Mon-Thur-Sun</th>
<th>Mon</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Fri</th>
<th>Sat/Sun</th>
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<tbody>
<tr>
<td>1</td>
<td>Aug 26 - Sep 1</td>
<td>lab mtg 1</td>
<td>lecture ch 3</td>
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<tr>
<td>2</td>
<td>Sep 2 - Sep 8</td>
<td>HW/Q # 1</td>
<td>lab mtg 2</td>
<td>lecture ch 4</td>
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<td>3</td>
<td>Sep 9 - Sep 15</td>
<td>HW/Q # 2</td>
<td>lab mtg 3</td>
<td>lecture ch 5</td>
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<td>4</td>
<td>Sep 16 - Sep 22</td>
<td>HW/Q # 3</td>
<td>TEST # 1</td>
<td>lecture ch 6</td>
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<td>5</td>
<td>Sep 23 - Sep 29</td>
<td>HW/Q # 4</td>
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<td>lecture ch 7a</td>
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<td>6</td>
<td>Sep 30 - Oct 6</td>
<td>HW/Q # 5</td>
<td>lab mtg 6</td>
<td>lecture ch 7b</td>
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<td>HW/Q # 6</td>
<td>TEST # 2</td>
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<td>HW/Q # 8</td>
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<td>Nov 4 - Nov 10</td>
<td>HW/Q # 10</td>
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<td>12</td>
<td>Nov 11 - Nov 17</td>
<td>HW/Q # 11</td>
<td>lab mtg 12</td>
<td>lecture ch 11</td>
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<td>13</td>
<td>Nov 18 - Nov 24</td>
<td>HW/Q # 12</td>
<td>TEST # 4</td>
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<td>14</td>
<td>Nov 25 - Dec 1</td>
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<td>15</td>
<td>Dec 2 - Dec 8</td>
<td>HW/Q # 13</td>
<td>lab mtg 14</td>
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<tr>
<td>16</td>
<td>Dec 9 - Dec 15</td>
<td>Final Exam</td>
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Test 1 covers the material in HW assignments 1, 2 and 3.
Test 2 covers the material in HW assignments 3, 4 and 5.
Test 3 covers the material in HW assignments 6, 7 and 8.
Test 4 covers the material in HW assignments 9, 10 and 11.
The final exam is comprehensive.