INSTRUCTOR INFORMATION

Name: Dr. J.F. Li Email: jfli@uab.edu Phone: 205-934-2154
Office Hours: Schedule available on Canvas Office: UH4006

COURSE DESCRIPTION

This course supports the development of quantitative literacy. As such, the course is about learning the concepts and principles of statistics and then being able to choose among various statistical methods when presented with a brand-new problem. The actual calculations required in applying statistical methods is done using a calculator or computer program.

COURSE MATERIALS

Access Code
The MyMathLab access code for the course is required and is available through Canvas with the First Day access unless you opt out. Access is also available for purchase at the bookstore, but more expensive. There is no textbook for the course, eText is included with the Access Code.

Formula Sheet
The formula sheet is allowed to be used during testing and is located in Canvas. It is recommended to use the formula sheet for assignments to get used to it.

Calculator
A good calculator can be useful, but is not required for the course. Students can use StatCrunch, which is included with MyMathLab or Excel for computations.

COURSE TIME ZONE

All assignment deadlines listed on this syllabus are in Central Time. If you are in a different time zone, including any traveling, you are responsible for calculating the time difference and submitting assignments or attending online meetings on time. Use the World Official Time Zone Site as a reference.
COURSE CONTENT

- Handle data sets, construct and interpret tables, graphs, and schematic representations of mathematical relations
- Translate verbal descriptions into mathematical form
- Compute statistics and evaluate the significance of observations
- Probability laws and empirical data
- Measures of center and variability
- Normal distributions
- Sampling distributions
- Hypothesis testing and confidence intervals
- Linear regression analysis
- Analysis of categorical data
- One-way analysis of variance

COURSE OBJECTIVES

1. Recognize and analyze sampling methods and the importance collecting data.
2. Develop the ability to organize, summarize, and represent data in ways that enable us to see important characteristics.
3. Apply methods of descriptive statistics to summarize or describe relevant characteristics of data.
4. Identify, interpret, and calculate probability values.
5. Select and use discrete or continuous probability distributions.
6. Use basic methods of testing claims about population parameters by selecting sample data to estimate values of population parameters as well as conducting tests about population parameters.
7. Analyze paired data to determine correlation and identify a linear regression equation to predict values.
8. Use statistical methods for analyzing categorical data that are separable into different cells.

9. Identify and apply methods of one-way analysis of variance to conduct a hypothesis test.

**COURSE ACCESS**

**Canvas**

All additional course materials as well as deadlines will be in Canvas. Official communication will be done through Canvas announcements. Canvas will also be used for submitting individual submissions of group problems and participation in discussions. You will also be able to find the weekly Zoom meetings that are available to receive additional help.

**MyMathLab**

All previews, homework, quizzes, and tests for this course are available in MyMathLab only. A user account is required for every student and needs to be activated through Canvas. You won’t need an access code unless you opt out of the First Day access provided at a reduced cost. Instructions can be found under Course Information.

NO EXTENSIONS for missed assignments due to failure to activate your account or opt out of First Day access.

**Browser**

It is recommended to use Mozilla Firefox or Google Chrome to avoid any browser issues with Canvas or MyMathLab.

**COURSE GRADE**

Your grade in the course is determined by the points earned throughout the semester.

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preview (10 quizzes @ 5 points each)</td>
<td>50</td>
</tr>
<tr>
<td>Homework (10 assignments @ 8 points each)</td>
<td>80</td>
</tr>
<tr>
<td>Quizzes (10 quizzes @ 7 points each)</td>
<td>70</td>
</tr>
<tr>
<td>Tests (4 tests @ 100 points each)</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>250</td>
</tr>
<tr>
<td>Discussion (10 @ 5 points each)</td>
<td>50</td>
</tr>
<tr>
<td>Group Problem (10 Problems @ 10 points each)</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total points possible</strong></td>
<td><strong>1000</strong></td>
</tr>
<tr>
<td>Syllabus Quiz</td>
<td>5</td>
</tr>
<tr>
<td>Bonus Reflection</td>
<td>20</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Points earned</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>880-1000</td>
<td>A</td>
</tr>
<tr>
<td>750-879</td>
<td>B</td>
</tr>
<tr>
<td>620-749</td>
<td>C</td>
</tr>
<tr>
<td>500-619</td>
<td>D</td>
</tr>
<tr>
<td>Below 500</td>
<td>F</td>
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Preview

There is a Preview Assignments for each Group Problem that is required before you can attempt the weekly Homework assignments. It is important to work through them to gain the basic understanding needed for the remaining assignments that it goes with. It serves as an introduction for new concepts and is completed in MyMathLab. No credit will be given for late completions.

Homework

The homework exercises are done using a computer program named MyMathLab. Homework assignments must be completed no later than 11:59 PM on the day specified in your course schedule to receive full credit. Any work submitted after the deadline will receive half-credit automatically. If you want to work on assignments after the deadline without it affecting your score, you need to go to Review your Work in MyMathLab.

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 (if available). Quizzes have a 30-minute time limit. They are open-book. Students are strongly advised to NOT wait until the last minute to complete practice and quizzes. Problems occurring at the last minute are the responsibility of the student. Quizzes must be completed no later than 11:59 PM on the day specified in your course schedule to receive full credit. Any work submitted after the deadline will receive half-credit automatically.

Problems and Discussions

Weekly discussion participation is required in the course. They will be available over multiple days and students are expected to post at least twice on two separate days. However, more posts are encouraged and will be needed for a good group interaction to solve the problems assigned for the discussion. Posting solutions to problems in the discussion is forbidden and will be penalized with no credit. Both assignment types will be completed in Canvas.

Tests/ Final Exam

There will be four 50-minute Tests and a 120-minute Final Exam. The final exam will be comprehensive. The tests and final exam can all be completed with reference to the formula sheet provided in Canvas. You can use your calculator or StatCrunch/Excel during testing. Tests and Final Exam are completed and submitted in MyLab Math, but a link to the software is located in Canvas. Each test is worth 100 points, and Final exam is worth 250 points. All students are REQUIRED to take ALL course Tests and Final exam using remote
proctoring services through ProctorU. There is a charge for this service and an appointment is required. Students who fail to make an appointment at least 3 days in advance will be subject to additional fees. NOTE THAT STUDENTS ARE RESPONSIBLE FOR PROCTORU TESTING FEES THAT ARE NOT COVERED BY UAB eLearning. UAB eLearning will NOT cover late fees or convenience testing fees but may cover regular test fees. Please see the ProctorU Student Information document posted in Canvas under the Course Information module.

We reserve the right to require a student to re-take a test with ProctorU if any testing inconsistencies or questions of academic integrity arise during the testing session or after the review of the recording by the instructor. Students will be responsible for payment of any fees to retake a Test. Academic misconduct undermines the purpose of education and can generally be defined as all acts of dishonesty in an academic or related matter and will not be tolerated.

Once the test is submitted in MyLab Math, it is scored and a percentage is given. The UAB score (points) for the test can be found in Canvas under UAB Grade for MA 180-QL/418-QL or online at https://secure.cas.uab.edu/mll/db/. Tests have a 50 min time limit, Final Exam has a 120 min time limit, and they must be taken in one sitting. One or more photo IDs will be required for testing.

Students take the Tests on their own schedule, but they must be taken on or before the deadline. Students will be able to review their tests in MyLab Math after the deadline has passed or after all students have taken the test.

Students must read the ProctorU info page in Canvas carefully and make sure they have access to a computer with a microphone and a webcam well IN ADVANCE of the test deadline. They must schedule an appointment at least 3 days in advance and should test their equipment at that time.

Students may test their equipment by going to https://test-it-out.proctoru.com/

Test It Out

Test your equipment before you start your exam with ProctorU.

test-it-out.proctoru.com

Note that the following Cannot be used for testing with ProctorU: Chromebooks, Tablets, Linux operating systems, Virtual machines, Windows 10 in S mode, Surface RT.

More details about the technical requirements for ProctorU are found at http://proctoru.com.

ALL Tests taken with ProctorU require an appointment at least 3 days in advance. The tests may be taken ANY day and time until the deadline. Failure to take a Test with ProctorU, power outages, technical issues, student personal problems, and failure to purchase an
access code are NOT acceptable reasons for missing a Test deadline. If students have problems with ProctorU, they should notify the instructor by email as soon as possible.

Preparing for Tests
The way you prepare for the tests in the course is by completing all of the assignments in the course. Test questions will be similar to questions seen on the Homework and Quiz assignments throughout the semester. You should complete these assignments for understanding to ensure the best preparation for the tests. You also have access to Practice Tests in MyMathLab that can be completed for preparation. There will be no credit for completion.

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. However, you can complete the homework and quiz assignments late for half credit.

- **If a student misses 1 test** (not including the Final Exam), the Final Exam grade will be used to replace the missed test grade if the student formally makes a request to do so. The student must request, complete, and email to instructor a Missed Test Request Form no later than 12:00 pm on the last day of classes. Note that only one missed test grade may be replaced with the Final Exam grade. All students are required to take the Final Exam.

- **A student missing a test due to university related business or government mandated activities is required to notify the instructor no later than one week prior to the missed test date in order to be able to take the test prior to scheduled test date.** If a student does not communicate with the instructor one week prior to the missed test date, the student will be required to use the Final Exam grade to replace the missed test grade.

Honor Code and Syllabus Quiz
Both assignments should be completed before any other assignments in Canvas. The Syllabus Quiz will be completed to ensure that you have read and understand the contents of this document. It will contain important aspects of the course and its structure. By completing it, you certify that you have read and understand the syllabus. The Honor Code will be used for you to certify that you will abide by the UAB Honor Code and that failure to do so can result in severe penalties.

Bonus Points
There will be an opportunity at the end of the semester for you to complete an assignment for up to 20 Bonus Points. You should also get 5 points for the Syllabus Quiz at the beginning of the semester.
COURSE POLICIES

Grade Review
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. You can also access it through Canvas.

Students are asked to review all grades for accuracy immediately after they are posted, at least once a week. 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.

Tutoring
Please visit Resources on the Math Department website and see the times for MA 180 at https://www.uab.edu/cas/mathematics/resources.

Email
Information about the course (changes to assignments, reminders, schedules, etc.) will be distributed to students using their BlazerID email address or Canvas. Each student is required to access their UAB email account daily, 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.

Disability support Services (DSS)
UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration and procedures. If you are registered with Disability Support Services, please contact DSS to discuss accommodations that may be necessary in this course. Disability Support Services can be reached at 934-4205 or www.uab.edu/dss or in the Hill Center Suite 409.

Title IX Statement
UAB is committed to providing an environment that is free from sexual misconduct, which includes gender-based assault, harassment, exploitation, dating and domestic violence, stalking, as well as discrimination based on sex, sexual orientation, gender identity, and gender expression. If you have experienced any of the aforementioned conduct we encourage you to
report the incident. For more information about Title IX, policy, reporting, protections, resources and supports, please visit http://www.uab.edu/titleix for UAB’s Title IX Policy, UAB’s Equal Opportunity, Anti Harassment Policy and Duty to Report and Non-Retaliation Policy.

Academic Misconduct

UAB Faculty expects all members of its academic community to function according to the highest ethical and professional standards. You are expected to be aware of, and rigorously adhere to, the UAB code of conduct with regard to academic honesty and inter-personal relations.

Academic dishonesty and misconduct includes, but is not limited to, acts of abetting, cheating, plagiarism, copying homework, fabrication, and misrepresentation. Candidates are expected to honor the UAB Academic Code of Conduct as detailed in the most current UAB Student Catalog.

Add/Drop and Course Withdrawal

Drop/Add: Deadlines for adding, dropping, or withdrawing from a course and for paying tuition are published in the Academic Calendar available online. Review the Institutional Refund Policy for information on refunds for dropped courses.

Withdrawal: To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and receive a grade of W (withdrawn). Failure to attend class does not constitute a formal drop or withdrawal.

HEALTH AND SAFETY

UAB is very concerned for your continued health and safety. Please consult the Students section of UAB United for up-to-date guidance because the following information is subject to change as circumstances require.

We strongly urge you to be fully vaccinated. Here is information on the safety of vaccines and on how to get vaccinated at UAB. Mask-wearing has proven to be one of the most successful mitigation strategies used to combat spread of the various variants of the COVID-19 virus. Please check UAB United for mask-wearing requirements and other safety protocols for this semester.

STUDENT ACADEMIC AND SUPPORT SERVICES

- One Stop Student Services provides a single point of professional integrated service to students. The One Stop serves students who need assistance with academic records, financial aid, registration, student accounting, ONE card, and other related topics.

- Student Assistance and Support provides individualized assistance to promote student safety and well-being, collaboration and resilience, personal accountability, and self-advocacy. The Care Team consults and collaborates with campus partners to balance the needs of individual students with those of the overall campus community. The UAB Care Team helps find solutions for students experiencing academic, social, and crisis situations including mental health concerns.
Disability Support Services assists students with in reaching accommodations for their educational experiences at UAB that ensure that they have equal access to programs, services, and activities at UAB.

The Vulcan Materials Academic Success Center provides tutoring, supplemental instruction, and other services that encourage goal achievement and degree completion.

The University Writing Center offers free writing assistance for all UAB students. Get help at any stage of the writing process and with any type of writing. Students may meet with a tutor in person or via Zoom. Students may also upload a paper for feedback (called eTutoring in the online system). During in-person and Zoom sessions, tutors can help you understand your assignment, develop and organize your ideas, use and cite sources, revise and edit your draft, and more. When you upload a draft for eTutoring, tutors can provide feedback on both big-picture issues and detail-oriented concerns; please note that you must upload a draft and assignment sheet to use eTutoring.

To make an appointment or get more information, please see the UWC website, email writingcenter@uab.edu, or call 205-996-7178. Follow the UWC on Facebook, Instagram, and LinkedIn for daily news and quick writing tips.

UAB Student Health Services delivers comprehensive, high quality, confidential, primary healthcare to students. Student Health provides testing services and vaccination clinics.

Student Counseling Services offers students a safe place to discuss and resolve issues that interfere with personal and academic goals. UAB has created a new app (available in the App Store and Google Play) called B Well, that is designed to easily access resources on mobile devices and build a self-care plan. Kognito is a free, interactive simulation-based platform designed to help you talk with someone when you are worried about your mental health.

UAB Blazer Kitchen at the Hill Student Center provides food and basic supplies for any UAB student in need through in-person or online shopping. Students who can are also able to donate food and supplies to assist their peers. To get more information, call 205-975-9509, email studentoutreach@uab.edu, or visit Student Assistance & Support website.

eLearning and Professional Studies provides numerous academic technologies and learning resources for students whose learning may be affected by COVID.

UAB Emergency Management will be the official source of UAB information during any actual emergency or severe weather situation.

The following are the various websites describing additional student academic and technology resources:

UAB Policies for Students
Student Academic and Support Services
Technology Resources

See also the Student Assistance & Support website of Student Affairs for a description of Covid-19-related resources, including the laptop loaner program.
**Syllabus:** This syllabus is subject to changes announced in class.