**HDCS 6360 Course Syllabus** (*7.19.19)*

This course will develop statistical concepts as applied in a technology and management environment. Because Excel is almost always available in this environment, we will use it as the primary tool for analysis and will put an emphasis on the interpretation of the computer output. Major content areas include the following concepts and their applications.

1. Describe/use appropriate sampling techniques.
2. Develop appropriate graphs and charts based on data classification and the purpose of presentation.
3. For a given data set, determine and interpret measures of central tendency, measures of spread, measures of relative standing, and measures of relationship.
4. Demonstrate an understanding of the basic concepts of probability and random variables.
5. Complete and interpret appropriate one- and two-sample confidence interval estimates and hypothesis tests: means, difference in means, proportions and variances.
6. Calculate a one-way ANOVA and a two-way ANOVA; apply the F-test for differences in means; identify assumptions, preform post hoc analysis; interpret results.
7. Use regression analysis to describe and test the relationship between variables (for one and two independent variables).
8. Apply forecasting models including moving averages, exponential smoothing, linear, quadratic and exponential trends and least squats for seasonal data. (optional)

The link on our BlackBoard Learn homepage contains a guide to your study. You should schedule a regular time each day to devote to the course.

# **Course MaterialsRequired textbook:** *Statistics for Managers (Using MS Excel),* **8th** ed.by Levine, Stephan, and Szabat. Publisher: Prentice Hall Publishing

Other resources, such as data sets can be downloaded from the publisher:

<https://media.pearsoncmg.com/ph/esm/esm_levine_lsxl8e_17/cw/lsxl8e_student_download.html>

**Required software:** *Microsoft Excel (XL)* - any version is fine
PH Stat is an XL add-in that comes with the text. PH Stat can be downloaded from the publisher’s web site; it is free if purchased with a new text or otherwise available for a fee. Students start by using the following link-

 <http://wps.aw.com/phstat/>

Students will click on Register for PHStat. From there, either register using the access code that is bundled with the textbook at the bookstore or purchase access.

PHStat is loaded onto the computers in the lab (CAM 237).

**CougarNet Account:** This account is required in order to use a campus computer while on campus. Since you are enrolled in a BlackBoard course, you automatically have a CougarNet account. This does not mean that your CougarNet account is ***activated.*** If you do not regularly use your CougarNet account, it becomes deactivated. If you have difficulties, then call 713-743-1411 to resolve the problems. This takes about 30 minutes.

# **Grading Policy**

Grades will be based on: 1) homework quizzes (available in BBL), HW problem submissions (submit in Excel – I suggest a tab for each chapter), and a comprehensive quiz (25%), 2) a case based on data of your choosing (15%), and 3) two spreadsheet exams (60%). See the posted [schedule f](http://www.uh.edu/~tech132/6360_date.docx)or deadlines.

# **Academic Honesty**

Refer to the University’s Student Handbook for the definition and the consequences of academic dishonesty. Review the policy. Note that the course web site indicates if an activity can be a collaborative assignment or if it is an individual assignment.

# **University Calendar & Academic Policies**

The link below contains specific information about Disabilities, Religious Holy Days, the Academic Calendar, and Academic Honesty. For more details: <http://catalog.uh.edu/index.php> / <http://catalog.uh.edu/content.php?catoid=22&navoid=6361>

**Instructional Support Services**

Learning Support Services provides small group and individualized peer-tutorial instruction. They are located in 237 CAM.

**Emergency or UH Closure**

In the event of an emergency and/or campus closure, please check our BlackBoard class.  Students should visit [uh.edu/emergency](http://uh.edu/emergency) for updates on campus closures and other emergency situations.  Students should also make sure that contact information is correct on the University contact site, UH ALERT Emergency Notification System, at <http://alerts.uh.edu/update-contact-information/>.

# **How to Find Extra Help**

1. Instructional Support Services Lab (110 CAM) provides resources, information technologies, instructional support for students, and tutoring

Daytime & evening hours are available. Current lab hours are posted/ updated on our course homepage. Sometimes, the lab is reserved for a class or a testing session, so check the website calendar first.

Telephone: 713-743-6263

Location: Room 237 – Cameron Building

Website: [www.uh.edu/iss](http://www.uh.edu/iss)

1. How to contact me:

 Email: cgoodson@uh.edu; email within BlackBoard Learn

Office Telephone: Cameron (room 231): 713-743-4046

Office Hours: Feel free to stop by my office if you are on campus. Please call if you want to ensure that I am available at the time you plan to visit.

If you would like me to phone you, you may always email me with your phone number and suggested times to call. I will call you.