Course Coordinator: Ken Lawson, PhD
Pronouns: he/him/his
Email: ken.lawson@austin.utexas.edu
Phone: 512-944-4369 (cell)
Office: PHR 3.209C (WebEx or Zoom-working virtually through the summer)
Office Hours: Monday and Wednesday 11-12 or by appointment

Instructor: Jamie C. Barner, PhD
Pronouns: she/her/hers
Email: jbarner@austin.utexas.edu
Office: PHR 3.210B (WebEx or Zoom-working virtually through the summer)
Office Hours: Monday and Wednesday 11-12 or by appointment

Instructor: Karen L. Rascati, PhD
Pronouns: she/her/hers
Email: krascati@mail.utexas.edu
Office: PHR 3.209C
Office Hours: Monday and Wednesday 11-12 or by appointment

Teaching Assistant: Shuang Chen, MPH
Pronouns: she/her/hers
Email: shuangchen@utexas.edu
Course Unique Number: 86715
Classroom: N/A
Class Days/Times: Wednesdays 9:00A-10:30A via Webex videoconference

Course Description
This course is designed to teach students the use of SAS and STATA for Windows statistical analysis software. The course will cover data coding, data management, choice of appropriate statistical procedures, procedure commands for SAS and Stata, and interpretation and reporting of results. In addition, it will cover construction of tables and graphs for appropriate and effective display and dissemination of results.

Course Objectives
The general learning objectives of PGS 390J Data Analysis in Healthcare are to help students:
(1) choose appropriate statistical analyses and conduct those analyses using SAS, SAS SQL, and STATA;
(2) interpret the results of statistical tests appropriately; and
(3) report the results of statistical tests appropriately (including construction of tables and graphs that display information clearly and effectively).

Course Website
This course uses Canvas, a Web-based course management system in which a password-protected site is created for each course. Canvas will be used to distribute course materials, to communicate, and to post grades. Canvas is available at http://canvas.utexas.edu. Support is provided by the ITS Help Desk at 475-9400 Monday through Friday 8 am to 6 pm.

Course Communications
Official course communications will take place in class, through e-mail, and on the course Canvas website. Students are advised to configure their Canvas settings to forward course announcements to their official e-mail address. Canvas uses only the e-mail address listed on the official University of Texas directory, so please check the University’s online directory to ensure your e-mail address is listed correctly.
Course Structure

Courses for Summer 2020 are required to be taught online. We will use a combination of asynchronous and synchronous instruction.

- Asynchronous instruction will consist of pre-recorded videos covering the topics listed in the Schedule.
- Synchronous instruction will consist of Webex videoconferences where the instructors will discuss selected topics covered in the videos, answer students’ questions, and go over the assigned homework that is due on that date.

From the date that videos are made available, students have one week to view the videos and complete the assigned homework. Students should submit the assigned homework to the appropriate instructor before class (Webex videoconference) the following week (see Schedule for dates and assignments). During the videoconference, the instructors will go over the assigned homework and answer students’ questions.

Videos and assignments will be accessible in Canvas. Instructors will be available to answer questions outside of Webex class meetings through email, videoconference, or telephone, and TAs will be available to provide assistance outside of Webex class meetings through email or videoconference.

Materials

Handouts accessible through Canvas.

Optional:

- Stata on-line documentation: [http://www.stata.com/features/documentation](http://www.stata.com/features/documentation)
Evaluation

Students will be evaluated on their performance on a variety of homework assignments and a data analysis project. Points are allocated as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excel Import (1)</td>
<td>5</td>
</tr>
<tr>
<td>Coding (1)</td>
<td>45</td>
</tr>
<tr>
<td>SAS Homework (2)</td>
<td>100</td>
</tr>
<tr>
<td>SAS SQL Homework (1)</td>
<td>50</td>
</tr>
<tr>
<td>Stata Homework (3)</td>
<td>150</td>
</tr>
<tr>
<td>Data Analysis Project (1)</td>
<td>200</td>
</tr>
<tr>
<td>TOTAL</td>
<td>550</td>
</tr>
</tbody>
</table>

Homework assignments will consist of exercises over material covered in videos or assigned readings. Specific information and due dates for homework assignments will be given by the instructor responsible for that topic. Since homework assignments will be covered and graded in the synchronous Webex meetings on their due dates, it is important for students to submit their assignments before class on the due dates. Grades for late homework assignments will be reduced by 10% unless specific arrangements have been made with the instructor in advance of the due date.

By class time on July 15, 2020 each student should ask one of the instructors (Drs. Barner, Lawson, or Rascati) for a data analysis project. Typically, the instructor will give the student a dataset and a series of questions to answer about the dataset using statistical analyses. The assignment is due before class on August 12, 2020.

Course Grades

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Course Average (Percent)</th>
<th>Grade Points</th>
<th>Letter Grade</th>
<th>Course Average (Percent)</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93% - 100%</td>
<td>4.0</td>
<td>B-</td>
<td>80% - 82%</td>
<td>2.67</td>
</tr>
<tr>
<td>A-</td>
<td>90% - 92%</td>
<td>3.67</td>
<td>C+</td>
<td>77% - 79%</td>
<td>2.33</td>
</tr>
<tr>
<td>B+</td>
<td>87% - 89%</td>
<td>3.33</td>
<td>C</td>
<td>73% - 76%</td>
<td>2.0</td>
</tr>
<tr>
<td>B</td>
<td>83% - 86%</td>
<td>3.0</td>
<td>C-</td>
<td>70% - 72%</td>
<td>1.67</td>
</tr>
</tbody>
</table>
Course Policies

Class Recordings

Course lectures/demonstrations will be recorded and available through Canvas. Video-recordings of a class made available by the College of Pharmacy are intended solely for the purpose of review by students currently enrolled in that class. Faculty and students utilizing class video-recordings should be careful to not compromise the privacy of either themselves or other users or the rights of the presenter (http://registrar.utexas.edu/students/records/ferpa). In addition, students who wish to make their own personal recordings (audio and/or video) during class must first secure permission from the presenter. Any additional distribution of College- or student-generated recordings (regardless of format) is prohibited without the written and signed permission of the presenter and students identifiable on the recording.

Academic Integrity

University policies on scholastic dishonesty are strictly enforced.

Students are expected to complete the homework assignments and the Data Analysis Project independently. Do not seek help from anyone other than the relevant instructors on these assignments.

Plagiarism and other forms of academic dishonesty are taken very seriously at UT. “You and other students are expected to maintain absolute integrity and a high standard of individual honor in scholastic work undertaken at the University. At a minimum, you should complete any assignments, exams, and other scholastic endeavors with the utmost honesty, which requires you to:

- acknowledge the contributions of other sources to your scholastic efforts;
- complete your assignments independently unless expressly authorized to seek or obtain assistance in preparing them;
- follow instructions for assignments and exams, and observe the standards of your academic discipline; and
- avoid engaging in any form of academic dishonesty on behalf of yourself or another student.”


Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. See College Policies and Information, and University Policies and Information for more details. You are responsible for understanding UT’s policy on Student Conduct and Academic Integrity which can be found at http://deanofstudents.utexas.edu/conduct/.

Religious Holy Days

If you will miss a class, an examination, a work assignment or a project in order to observe a religious holy day, you must notify the course coordinator the first week of class so that arrangements for all such students can be made for the full semester.
Services for Students with Disabilities
Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities at 471-6259 (voice) or 232-2937 (video phone) or https://diversity.utexas.edu/disability/. All University rules concerning accommodations must be followed. Please provide a copy of the letter to the course coordinator and the office of the Associate Dean for Academic Affairs as soon as possible after receipt.

Counseling and Mental Health Center
The Counseling and Mental Health Center (CMHC) provides counseling, psychiatric, consultation, and prevention services that facilitate students' academic and life goals and enhance their personal growth and well-being. https://cmhc.utexas.edu/

Behavior Concerns Advice Line
If you are worried about someone who is acting differently, you may call the Behavior Concerns Advice Line to discuss your concerns about another individual’s behavior. This service is provided through a partnership with the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP), and The University of Texas Police Department (UTPD). Call 512-232-5050 or visit https://besafe.utexas.edu/behavior-concerns-advice-line.

Other University Resources for Students
The University has numerous resources providing assistance and support for student learning:
Sanger Learning and Career Center: www.utexas.edu/ugs/slc
University Writing Center: http://uwc.utexas.edu/
ITS: http://www.utexas.edu/its/
Student Emergency Services: http://deanofstudents.utexas.edu/emergency/
Libraries: http://www.lib.utexas.edu/
Canvas: https://utexas.instructure.com/courses/633018/pages/student-tutorials

Emergency Procedures (utexas.edu/emergency and https://preparedness.utexas.edu/)

1. Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated or an official announcement is given.

2. Evacuation procedures require orderly exiting and assembly outside.

3. Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.

4. Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.

5. During an evacuation — follow the instructions of faculty or class instructors.
6. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or the Fire Prevention Services.

7. **CAMPUS CARRY**
   Students should familiarize themselves with the information provided by the University regarding the implementation of “Campus Carry” legislation. You will find an information sheet specifically for students (as well as sheets for parents, visitors, faculty, and staff) at [http://campuscarry.utexas.edu/info-sheets](http://campuscarry.utexas.edu/info-sheets).

8. **LOCKDOWN:**
   The directive “Lockdown” is used to protect occupants in proximity of an immediate threat by limiting access to buildings and rooms. If no specific locations are given, all buildings should initiate lockdown procedures. Should you discover that there is a violent or potentially violent person in your building or area, DO NOT CONFRONT THE PERSON UNLESS THERE IS NO OTHER OPTION TO SAVE YOUR LIFE.

9. **SHELTER-IN-PLACE**
   **For weather:**
   1. Go to the lowest level of the building if possible.
   2. Stay away from the windows.
   3. Go to interior hallways and rooms.
   4. Use arms to protect head and neck in a “drop and tuck” position.
   5. Monitor emergency communications for specific instructions (www.utexas.edu/emergency).

   **For environmental incidents (chemical, biological, or radiological releases):**
   1. Go inside the nearest building.
   2. Close all doors, windows, and other inlets from the outside.
   3. Shut down the fresh air intake or HVAC system if possible.

**ITS**


Canvas help 24/7 at [https://utexas.instructure.com/courses/633028/pages/student-tutorials](https://utexas.instructure.com/courses/633028/pages/student-tutorials)
Schedule (unless changes occur during the semester)

Note: Videos and homework assignments will be available one week before the homework assignment is due (as indicated by like color-coding in table cells). On the date the homework is due, it will be discussed and graded during the synchronous Webex class meeting and instructors will answer questions about the assignments and statistical analyses.

<table>
<thead>
<tr>
<th>#</th>
<th>Date</th>
<th>Assigned</th>
<th>Due</th>
<th>Topic for Discussion (9A-10:30A)</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Videos</td>
<td>Homework</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>June 4</td>
<td>Course Introduction</td>
<td>1. Import Excel spreadsheet into SAS 2. Coding HW</td>
<td></td>
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<tr>
<td>2</td>
<td>June 10</td>
<td>SAS-B</td>
<td>SAS HW1</td>
<td>1. Import Excel Spreadsheet into SAS 2. Coding HW</td>
<td>Lawson Barner</td>
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<tr>
<td>3</td>
<td>June 17</td>
<td>SAS-C</td>
<td>SAS HW1</td>
<td>SAS-B SAS HW1</td>
<td>Barner / Rascati</td>
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<tr>
<td>4</td>
<td>June 24</td>
<td>SAS-D</td>
<td>SAS HW2</td>
<td>SAS-C</td>
<td>Barner / Rascati</td>
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<tr>
<td>5</td>
<td>July 1</td>
<td>SAS SQL-A</td>
<td>SAS HW2</td>
<td>SAS-D SAS HW2</td>
<td>Barner / Rascati</td>
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<tr>
<td>6</td>
<td>July 8</td>
<td>SAS SQL-B</td>
<td>SAS SQL HW</td>
<td>SAS SQL-B SAS SQL HW</td>
<td>Rascati</td>
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<tr>
<td>7</td>
<td>July 15</td>
<td>STATA-A</td>
<td>STATA HW1 Last Day for Assignment of Data Analysis Project</td>
<td>SAS SQL HW</td>
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<td>8</td>
<td>July 22</td>
<td>STATA-B</td>
<td>STATA HW1</td>
<td>STATA-A STATA HW1</td>
<td>Lawson / Rascati</td>
</tr>
<tr>
<td>9</td>
<td>August 5</td>
<td>Table/Graph Construction</td>
<td>STATA HW3</td>
<td>STATA-B STATA HW2</td>
<td>Lawson / Rascati</td>
</tr>
<tr>
<td>10</td>
<td>August 12</td>
<td>Data Analysis Project</td>
<td>Table/Graph Construction</td>
<td>STATA-C STATA HW3</td>
<td>Lawson</td>
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</table>