STAT 473A/573A Statistical Computing Packages

Instructor:
Kristin McCullough, Ph.D.
Office: DuSable Hall 361A
Email: kmccullough@niu.edu
Office Hours: TWTh 10:00am - 11:00am or by appointment

Course Information:
Time: Th 5:00pm – 5:50pm
Location: DU 212
Description:
Introduction to statistical computing with the aid of software packages. Data entry, transformations, simple plots, summary statistics, and statistical procedures.
PRQ: MATH 211 and STAT 301, or STAT 350, or consent of division.
CRQ: STAT 473/573 or consent of division.
Chapters Covered: 1-3, 6-7

Learning outcomes of this course include:
• Importing external files, subsetting and merging data files.
• Performing statistical procedures, graphics.
• Simple inference using SAS
• Simple linear and multiple linear regression
• Practical working knowledge of computer programming and popular statistical software

Course Activities
Assignments: Homework will be due one week after the assigned date. Homework will be posted on blackboard, and must be typed and submitted via blackboard. Scanned copies of handwritten answers will not be accepted. All SAS output must be annotated. Students are allowed to discuss homework assignments, but each student must write his/her solutions in their own way, using their own words. Late assignments will receive half credit.

Exams: There will be two exams: a midterm and a final. Make-up exams will only be allowed for excused absences with documentation.

573A: Graduates students will have extra problems on the homework and more challenging problems on the exams.

Grade Percentages: Homework 50% and exams 50%

Grading Scale
<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100–93%</td>
</tr>
<tr>
<td>A-</td>
<td>90–92%</td>
</tr>
<tr>
<td>B+</td>
<td>87–89%</td>
</tr>
<tr>
<td>B</td>
<td>83–86%</td>
</tr>
<tr>
<td>B-</td>
<td>80–82%</td>
</tr>
<tr>
<td>C+</td>
<td>77–79%</td>
</tr>
<tr>
<td>C</td>
<td>70–76%</td>
</tr>
<tr>
<td>D</td>
<td>60–69%</td>
</tr>
</tbody>
</table>

**Accessibility**

If you have a disability, please make arrangements with the Disability Resource Center (DRC) early in the semester, and let me know. For details see: [http://www.math.niu.edu/courses/CAAR.html](http://www.math.niu.edu/courses/CAAR.html)

Northern Illinois University is committed to providing an accessible educational environment in collaboration with the Disability Resource Center (DRC). Any student requiring an academic accommodation due to a disability should let his or her faculty member know as soon as possible. Students who need academic accommodations based on the impact of a disability will be encouraged to contact the DRC if they have not done so already. The DRC is located on the 4th floor of the Health Services Building, and can be reached at: 815-753-1303 or [drc@niu.edu](mailto:drc@niu.edu).

NIU’s updated policies on Academic Integrity, Attendance and Accommodations for Students with Disabilities are now available at: [http://www.niu.edu/stat/courses/pdfs/Accessibility_Statement.pdf](http://www.niu.edu/stat/courses/pdfs/Accessibility_Statement.pdf)

**Academic Integrity Statement**

The Statement of Academic Integrity in the Undergraduate catalog will be strictly enforced with regard to homework assignments, quizzes, and exams.

Please see: [http://www.niu.edu/stat/courses/pdfs/Accessibility_statement.pdf](http://www.niu.edu/stat/courses/pdfs/Accessibility_statement.pdf) for policies on academic integrity, attendance and accommodations for students with disabilities.

**Guidelines and General Information:**

- You are encouraged to ask questions and to participate in class discussions, however talking in class while the instructor is lecturing is highly frowned upon.
- Cell phones are to be muted or turned off during lectures, recitations and visits to office hours and kept away during exams and quizzes. Violations will be considered as class disruptions, or worse, and will be treated accordingly.
• Texting during class is not allowed. If you are caught, your phone will be confiscated for the remained of the class period. If you are caught texting a second time, you will be asked to leave the class for that day.

• It is your responsibility to be sure that your work is turned in and that you receive the notes and announcements (all announcements are made at the beginning of class). Missing an announcement will not be accepted as a valid excuse for missing an event (test, quiz etc.). If you frequently miss class the instructor reserves the right to deny office hour privileges to you.

• Late arrivals and early departures from class are strongly discouraged, except in cases of emergency.

• Students are to remain for the entire session unless excused by the instructor beforehand or confronted with a serious personal emergency. For instance, it is not acceptable for students to walk in and out of class to answer cell phones, take casual bathroom and smoking breaks, or attend to other personal matters.

• It is not acceptable to use an iPod, read a newspaper, use a laptop for anything other than taking class notes, study for other classes, or engage in other behavior that distracts one from the class proceedings one the session has started

• The syllabus may be changed at any time. Changes will be announced in lecture.

Suggestions

• To do well in this course, you should attend class regularly.

• Please try to keep up with the class. If you fall behind, then you will have to work much harder to catch up.

• Please feel free to talk to your TA or instructor. If you are falling behind or getting lost, then do not wait; act on it as soon as possible. Get help, spend more time studying, form study groups, go to your instructor's office hours, go to the Statistics Assistance Center (DuSable 326) - do whatever works for you.