

1.0 credit hours**Instructor:** Yajun Liu (pronounced as /Ya-'June Lyu/)**Course Time:** Thursday 2:00PM-2:50PM**Course Location:** DuSable 268 (first TWO WEEKS)**Computer Lab:** Wirtz 332**Office:** DU 361B **Phone:** 753-6796 **e-mail:** yliu@math.niu.edu**Office Hours:** TR 10:30-11:30AM, W 7:30-9:00AM, and appointment**Textbook:** A Handbook of Statistical Analyses using SAS, 3rd Edition by Der and Everitt.**Code Download:** <http://ftp.sas.com/samples/A58679>**References:**

- Applied Regression Analysis and Other Multivariable Methods, 4th edition by Kleinbaum, Kupper, Nizam and Muller
- The little SAS book, 4th edition by Delwiche, Lora D and Slaughter, Susan J , SAS INSTITUTE
- Applied Statistics and the SAS Programming Language, 5th edition, by Cody, DiIorio, SAS Applications Programming, 1991.
- <http://support.sas.com/documentation/93/index.html>
- <http://v8doc.sas.com/sashtml/>
- <http://support.sas.com/onlinedoc/912/docMainpage.jsp>

STAT 473A/573A COURSE DESCRIPTION:

Introduction to statistical computing with the aid of software packages. Data entry, transformations, simple plots, summary statistics, and statistical procedures.

Prerequisites & Notes: PRQ: MATH 211 and STAT 301, or STAT 350, or consent of division. CRQ: STAT 473 or consent of division.

STAT 473A/573A LEARNING OUTCOMES:

- Importing external files, subsetting and merging data files.
- Performing statistical procedures, graphics.
- Macro language and its functions.
- Simple inference using SAS.
- Simple linear and multiple regression.

TOPICS: Chapter 1-3, Chapter 6-7**STUDENT ASSESSMENT:**

5 Assignments (worth 100 points)

Midterm Exam on October 17 (worth 100 points)

Final Exam consists of a **project, its presentation** and the final **written report** on the project is due on **Tuesday, December 10, 2-3:50 p.m.**(worth 100 points)

Tentative grading scale:

- 270-300 points → A
- 264-269 points → A-
- 255-263 points → B+
- 240-254 points → B
- 234-239 points → B-
- 225-233 points → C+
- 204-210 points → C
- 180-203 points → D
- Below 180 points → F

The actual grading scale will be determined after the final exam. The final grading scale can be lower, but will not be higher, than the above tentative scale.

- The schedule and the grading scale may be changed at any time. If any change is made, it will be announced in class.
- Please try to attend lectures regularly. You will be responsible for materials covered in missed lectures.
- Only documented medical emergencies will be grounds for make-up exams. All arrangements must be made within 5 days of the missed examination.

Exams

- The midterm exam will be given during regular class time.
- Make-up exams will only be given when a student has a planned, documentable, and excusable absence on a test date and personally negotiates the make-up in advance. For sudden, documentable, and excusable absences (illness, death, etc), the points from the missed exam will be added to the final exam. Unexcused absences (oversleeping, forgetting, etc) will result in a score of zero.

Homework

- Homework's approx. every three weeks. Due in a week. No credit will be given to late submissions.
- The homework will be assigned electronically, but you should turn in both input programs and outputs if needed. Specific instruction will be given on each homework. Annotate your output, either with a word processor or by hand, so that the grader can determine that you have accomplished the goals of the assignment. If the grader has to spend too much time to understand what is written, you may not get whole credit for the problem.
- Assignments are to be neat and presented logically on loose-leaf paper. If more than one sheet of paper is used, the assignment must be stapled together. Paper from spiral notebooks is unacceptable. You are to show all your work. If your assignments are messy, disorganized or do not follow the stated instructions, they will be returned and you will not receive credit for the assignments.
- Students are allowed to discuss homework assignments, but you should not look at another student's work. Each student must write his/her solutions in their own way, using their own words.
- Please note that because of the quick pace of this course it is unlikely that all of your homeworks will be graded and returned to you before the exam. You may want to make copies of your homeworks before turning them in.

ACCESSIBILITY:

- If you have a disability, please make arrangements with the Disability Resource Center (DRC) early in the semester, and let me know. See <http://www.math.niu.edu/courses/CAAR.html> for details.
- 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 (V) or 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.

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
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. 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 remainder 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 (exam, 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 once the session has started
- The syllabus may be changed at any time. Changes will be announced in lecture.
- Suggestions
 - **DO NOT WAIT UNTIL THE LAST MINUTES.**
 - 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 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 - do whatever works for you.

OTHER USEFUL RESOURCES:

You may get some other useful resources through <http://www.niu.edu/stat/courses/index.shtml>

IMPORTANT DATES:

Date	
August 28, Sunday	Last day to add or drop via self-service in MyNIU
September 2, Friday	Last day to add or drop with approval of course department or major college
October 17, Thursday	Midterm Exam
October 18, Friday	Last date to withdraw from a course or the university
December 10, Tuesday 2-3:50 p.m	Final Exam