

Stat 330/530 Statistical Computing I: SAS

Winter 2012, Cal Poly State University SLO

- Class Info:** Section 01, TR 4:10 – 6:00pm (Bldg 02, Room 206)
- Instructor:** Dr. Jimmy A. Doi, Department of Statistics
email: jdoi@calpoly.edu ← best way to reach me
- Office Hours:** Mon & Wed: 3:10 – 4:10pm, Tue & Thu: 10:10 – 11:10am
 (and by appointment)
- Office Info:** Faculty Office Building East 25 - 106
 Phone: 756 – 2901 (on campus: 6-2901)
- Web Sites:** (1) statweb.calpoly.edu/jdoi/web/classes/stat330/st330.htm
 (2) Check *Blackboard* site through my.calpoly.edu.

Course Materials:

- Text:** *The Little SAS Book: A Primer (4th edition)*
 Delwiche and Slaughter, 2008
- 3-Ring Binder:** To store all course notes and handouts.
- Media:** USB Flash Drive (highly recommended ... don't lose it!)
- Computer Access:** I will send email on a regular basis and plan to make use of the Cal Poly *Blackboard* site.

You are expected to bring your book and binder to every class session.

HW/Exam Schedule & Grade Breakdown:

- Homework: 15%
- Quizzes: 10% (about 4)
- Exam 1: 22.5% (during the 3rd/4th week of the quarter)
- Exam 2: 22.5% (during the 7th/8th week of the quarter)
- Final Exam: 30% Thu, 3/15 7:10 – 10:00pm **The final is cumulative.**)

No make up exams/quizzes will be given, except for extenuating circumstances verifiable by relevant documentation.

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Score	100-94	93-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-63	62-60	≤ 59

Cut-off scores may be changed during the quarter but only to lower values (to your benefit).

Course Objective: Techniques available to the statistician for efficient use of computers to perform statistical computations and to analyze large amounts of data. Use of SAS throughout the course. Includes data preparation, report writing, and basic statistical methods.

Course Prerequisite: STAT 252 or STAT 302 or STAT312 or STAT 313 or STAT 322.

Carefully read the following ... mark/highlight especially important sections.

- This is more like a computer science class
- You will learn the basics of this computing language
- There is **NOT** a heavy emphasis on statistics in this course

Study Time: All students are encouraged to study 25 to 35 hours a week! Please remember that I'm here to help you so take advantage of office hours.

Text: Please bring your text with you to every class.

Course Notes: I will regularly hand out sections of the course notes during class.

Homework: Homework will be assigned regularly and will be due at the *beginning* of the designated class. **No late homework will be accepted.** Do not procrastinate and begin your assignment on the evening before it is due! Computing assignments take a considerable amount of time to complete.

The following excuses (or similar variations) will **not be acceptable** as reasons why an assignment could not be submitted/uploaded:

- *printer ran out of ink/paper*
- *dorm computers were down*
- *my computer hates me*
- *my computer has a virus*
- *my dog ate my flash drive*
- *my dog ate my computer*

Your lowest homework score will be dropped before tabulating the average. Working together on homework assignments is permitted and **strongly encouraged** (form study groups!). However, each student should write up and submit his/her own work independently of others.

WARNING: If you submit computer code which is an exact (or near exact) copy of someone else's code, **ALL PARTIES** involved will receive a **ZERO**.

HW Submission Policy: For all assignments, you must turn in a hardcopy version of your SAS code (contents of the **Program Editor**). The **FIRST FIVE LINES** of every SAS program you create must have the following identification structure (name, date, assignment number in this commented format):

```
/*-----*
| Name:          Jimmy A. Doi          |
| Date:          January 3, 2012      |
| Assignment #:  1                    |
*-----*/
```

All assignments will be posted on Blackboard. If so indicated in the assignment, submit any relevant SAS programs by uploading them through Blackboard. To upload, be sure to **FIRST** save all SAS files on your computer's hard disk (or on a flash drive). Be sure to use the following naming convention (for all HW submissions):

`HW_#_LASTNAME.sas`

For example, if your last name is Johnson, for your first assignment (which is #1) you should save your file as:

`HW_1_Johnson.sas`

After saving the file, upload the file through Blackboard using the available link. (Follow the link and use "File to Attach"/"Browse" to select your file).

Exams/Quizzes: We will have roughly one quiz every week and a quiz date will be announced at least one day in advance. Your lowest quiz score will be dropped before tabulating the average. All exams/quizzes will be open book/open notes. All exams will count towards your grade (none will be dropped).

Attendance: Regular attendance is important! Since we meet only twice a week, each class session constitutes 5% of the entire quarter. Throughout my experience, I have found a strong connection between the students that do poorly on exams and those who often skip class. I will skip certain sections of the text which you will not be responsible for and I will emphasize key issues that are likely to be on exams. I will announce such details during lectures.

Participation: You will learn the material much better if you participate during lectures. So, I will **expect** you to participate by asking questions. Please do **not hesitate** to ask questions ... however simple you may think them to be. You will have opportunities during most class meetings to practice creating code at your terminal. Be sure to ask questions if you run into problems.

Accessing SAS: Here are some locations where SAS **should** be:

- PolyConnect PC Lab (35-114C, Kennedy Library)
- Open Computing Lab (12-110)
- Statistics Lab (for Stat Majors Only)
- Business Lab (03-301B)
- Liberal Arts Lab (10-128)
- Your own computer![†]

[†]You can check out a set of SAS installation CDs so that you can have the program on your own computer. You will need to sign a license agreement statement and return the CDs within

2 days of checkout. I am not responsible for proper installation of SAS on your computer. The CalPoly HelpDesk staff may be able to help ... however you are ultimately responsible for your own installation. I will direct you to a SAS installation guide (PDF) which will be available on my website.

Logging in/off: Please do **NOT** turn off the computers in the lab but do **log off** when you are finished.

Username: _____, Password: _____

If the previous user did not properly exit his/her session, log off by pressing “Ctrl+Alt+Delete” and click on “Log Off...”. Then log back on to ensure a clean workspace.

Before leaving class each day please be sure to delete any files you have saved on the desktop and log off as described above. Save all important files to your flash drive. The computer will automatically delete any files saved on the desktop by the next day.

Finally: You are about to learn one of the most powerful statistical analysis programs and you will learn a lot of important skills employers will find very impressive. Through this experience it is my hope that you will find the material interesting and helpful. Most importantly, I hope to make this experience an enjoyable one for you. So, if you’re having trouble – there’s no need to silently suffer alone! **Please** ask questions (about homework and/or the lecture material) during class, through email, or at office hours!

CLASS CIVILITY AND COURTESY: All students in this class are expected to refrain from any disruptive behavior and to act with a level of common courtesy.

Expectations from me:

1. **Courtesy:** I will treat you with courtesy and respect.
2. **Time:** I will start and end class on time. I will not encroach on your time when class is finished.
3. **Attentiveness:** I will be attentive to your questions and provide the best level of instruction I can.

Expectations from you:

1. **Courtesy:** Provide the same courtesy to me as I provide to you.
2. **Time:** Show up on time and do not leave early. Refrain from packing up your belongings in a disruptive manner while class is in session. I will respect your time so please respect mine.
3. **Attentiveness:** Be attentive during lecture and do **not** hesitate to ask questions (whether in class, at office hours, or over email).

RULES OF CONDUCT IN THE STUDIO: Turn off all cell phones while in class. **Do not send or read text messages while in class.** If you access your cell phone during an exam, your test will be removed and you will receive a zero score. Do not read a newspaper and do not talk excessively with others during lecture. I will **not tolerate** acts of disruptive behavior – they are in violation of the “Code of Student Conduct, Rights, and Responsibilities” and will be addressed through Cal Poly Judicial Affairs.

RULES OF CONDUCT ON THE COMPUTER: You are welcome to check email and surf the web before class, after class, or during a specified class break. But, while class is in session all such activities are prohibited. Students who persistently disregard this request will be **asked to leave the class.** Please keep in mind that the computing lab is set up where the activities on your terminal can be monitored at the instructor’s workstation. If you run extraneous programs in the midst of an examination you will receive an automatic fail for the exam and possibly for the course.

ACADEMIC INTEGRITY: All Cal Poly students are subject to the “Code of Student Conduct, Rights, and Responsibilities” which defines the university policy on academic integrity. For more information on this policy, refer to the Cal Poly Catalog, Class Schedule, or visit: www.calpoly.edu/~saffairs/csrja

DISABILITY RESOURCE CENTER: If you have a disability that requires special accommodations in this class, please speak to me about your situation. It will be your responsibility to contact the Disability Resource Center (124-119, Phone: 756-1395) and provide them with documentation regarding your disability. That office will then work with me to ensure that you are provided the services you need. You may wish to consult the web page for the Disability Resource Center at: drc.calpoly.edu