
Class Meeting Time: Mondays, 6:10 – 8:40 pm

Office Hours: Mondays, 8:45 – 10:00 pm

Classroom: Gelman B01

Locations: 2130 H Street NW

Professor: Jae Brodsky

Campus Address: Rome Hall 676

Phone: (202) 994-6357 (not recommended!)

E-mail: jaebrodsky@gwu.edu

Office hours: Mondays, 8:45 – 9:45 pm, Gelman B01 (plus another if requested)

TA: Office: 2140 Pennsylvania Avenue

Course Description
This is a one-semester course designed to introduce students to the fundamentals of the SAS system for data management, statistical analysis, and report writing. SAS is best known as a statistical software. This course will provide a comprehensive understanding of and place emphasis on data modification, programming, file handling, and macro writing. Emphasis is placed on SAS as a programming language of manipulation of statistical data, and is not placed on the use of SAS proc steps.

The course is divided into three unequal parts. The first part covers the fundamentals of the SAS system. It provides an overview of the language and its capabilities and weaknesses. The second part concentrates on the Interactive Matrix Language (IML) for matrix algebra. The third part focuses on components of the macro facility.

This course meets once a week for two and a half hours. Course materials, including assignments, lectures, handouts, etc., will be posted to the course website. **You will need to review all handouts posted on the website before class.** For SAS programs, review the output as well as the program.

You can obtain a copy of the SAS system for your personal computer. Bring 2 blank CDs to the Technology Lab in the basement of Gelman hall. For more information, see http://itl.gwu.edu/itl_sas.html.

Prerequisites: This course is intended for students who have knowledge of computer programming and would like an introductory working knowledge of SAS. Prerequisites for the source are an introductory course in programming (STAT 1129) and an introductory course in statistics (STAT 1051 or 1053), or permission from the instructor.
**Texts:** There is one required text and one recommended text. Additionally, there are several official texts and online help from the SAS Institute. After taking this course, the required and recommended texts used together should be sufficient for a student to perform basic statistical analyses using SAS.

Recommended: *The Little SAS Book*, by Lora Delwiche and Susan Slaughter
Useful: *SAS Macro Programming Made Easy*, by Michele Burlew

The SAS manual is online at [http://support.sas.com/onlinedoc/913/docMainpage.jsp](http://support.sas.com/onlinedoc/913/docMainpage.jsp).

**Learning Outcomes**
As a result of completing this course, you will be able to:
1. Input and modify data sets in SAS
2. Perform matrix algebra in SAS
3. Understand the basics of the SAS macro facility

**Grading**
- 50% programming projects
- 25% midterm exam
- 25% final exam

**Homework**
There will not be any formal homework assignments. However, students should practice the examples and suggested exercise in SAS to become familiar with the course material.

**Projects**
There will be five small programming projects designed to assist understanding of the recent topics covered in class. Do not skip the projects! You cannot pass the course without turning in projects. You will need to find a dataset on a topic that you are interested in. The first several projects will show you how to handle data and will use example data sets. The last project will be done on your dataset.

**Exams**
Exams are closed book. You may use one (reasonable) page of summary notes.

**Midterm:** The midterm exam will be given on 18 March 2013.
**Holiday:** There will be no class on 21 January and 18 February 2013.
**Final Exam:** The final exam is cumulative. The final exam schedule has not yet been released.
**Incomplete:** Incompletes will only be considered if a student is passing the course AND cannot complete the course due to illness or other circumstances beyond control. Please contact me as soon as possible if an incomplete may be necessary.
Class Policies
You are responsible for the material covered and the handouts distributed during both the lecture and the lab hours. Late work will not be accepted unless we have arranged for this beforehand. Make-up examinations will only be given in exceptional circumstances (e.g. well documented medical emergency). Deadlines will be extended for religious holidays if arranged beforehand.

ACADEMIC INTEGRITY
I personally support the GW Code of Academic Integrity. It states: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see: http://www.gwu.edu/~ntegrity/code.html

SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM

DISABILITY SUPPORT SERVICES (DSS)
Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information, please refer to: http://gwired.gwu.edu/dss/

UNIVERSITY COUNSELING CENTER (UCC) 202-994-5300
The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations, confidential assessment, counseling services (individual and small group), and referrals
http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices

SECURITY: In the case of an emergency, if at all possible, the class should shelter in place. If the building that the class is in is affected, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location.