

STA5067, Data Management and Analysis with SAS Spring 2020

Instructor: Dr. Justin Shows

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Office: LOV 317

Office Hours: 2:00-3:00 TuWeTh

Course Materials: All course materials are online, see course Canvas page for link.

Certificate in SAS Programming and Data Analysis:

This course satisfies one of the four courses required for the SAS Programming and Data certificate jointly sponsored by FSU and the SAS Institute. **Students** interested in the program **must apply to the program before** the end of the semester in which **the second course in the program is taken**. In addition, a portfolio is required to be submitted in the last semester of program and a representative assignment and/or project from this course must be included. For more details see <http://stat.fsu.edu/sas-certificate>.

Important Dates: The due dates for all homework as well as the dates of the midterms will be posted on Canvas under the assignments tab on the course Canvas page.

Textbook: There is no required text. The following books are good resources:

The Essential PROC SQL Handbook by Prairie
SAS Macro Programming Made Easy by Burlew

Accessing SAS Software: For this course we will use SAS On Demand for Academics. All programming will be done using a browser-based interface to the SAS cloud (Details will be provided in the first week's module).

Homework: All homework must be uploaded to Canvas. Assignments require you to submit **only the programs** that produce the output for the exercises in the assignment. **All homework materials must be assembled into a single file and this single file should be submitted** to the assignment posted on the course Canvas page.

Collaborative writing or copying of homework programs is not allowed. Homework Assignments may be discussed with other students (including using social media) but each student is required to write and assemble the programs required for the homework assignment on their own.

Questions about homework grades should first be addressed to the grader.

Homework Grading:

Late homework will be penalized 20% and no credit will be given for homework submitted more than one week after the due date.

Prerequisite: STA 5066

Course Objectives: Upon completion of this course students will be able to manage data using the SAS system and will have completed the required course for graduate certification in Data Management and Analysis with SAS.

Course Description: This course provides additional methods for managing and analyzing data with the SAS system. It covers as many of the following topics as time permits:

1. Advanced data step topics
2. Manipulating data with PROC SQL
3. SAS macro facility
4. Simulation with the data step
5. Analyses with PROC IML

Grading: The final course grade will be based on homework (70%), exam 1 (15%), and exam 2 (15%). Letter grades are based on the following scale.

A	A-	B+	B	B-	C	D	F
95+	90-<95	85-<90	80-<85	75-<80	70-<75	<70	<60

Exams

There will be two exams during the semester. **The exams are online and consist of multiple choice, multiple answer, true-false, etc. questions. The exams will be timed, made available for three days, and you make take it twice, but only the final attempt is included in the grade book.**

Exam 1 will cover PROC SQL and will be given the week of March 2-6.

Exam 2 will cover the macro facility and will be given the week of April 13-17.

Academic Honor Code: All students are expected to uphold the Academic Honor Code. The Academic Honor System of the Florida State University is based on the premise that each student has the responsibility to:

- Uphold the highest standard of academic integrity in the student's own work.
- Refuse to tolerate violations of academic integrity in the University community.

Foster a high sense of integrity and social responsibility on the part of the University community.

Students with Disabilities: Students with disabilities needing academic accommodations should do the following during the first week of class:

Register with and provide documentation to the Student Disability Resource Center.

Bring a letter to the instructor from SDRC indicating that you need academic accommodations.

For more information about services available to FSU students with disabilities, contact the Assistant Dean of Students: sdrc@admin.fsu.edu, Disabled Student Services, 08 Kellum Hall, Florida State University, Tallahassee, FL 32306-4066, (850)644-9655.

Some Online Resources:

Some online tutorials:

<http://support.sas.com/training/tutorial/>

A complete listing of online help for SAS 9.4:

<http://support.sas.com/documentation/94/>

SAS Analytics U. Numerous tutorials may be found on YouTube at:

https://www.youtube.com/playlist?list=PLVBcK_IpFVi9cajJtRel2uBLbtCLz-WIN

Numerous blogs covering different aspects of SAS are available at:

<http://blogs.sas.com/content/>

A good resource for many SAS topics is the UCLA web site:

<http://www.ats.ucla.edu/stat/sas/>

Documentation SAS formats and informats:

<http://support.sas.com/documentation/cdl/en/leforinforref/64790/HTML/default/viewer.htm#titlepage.htm>

Documentation, SAS Procedures:

<http://support.sas.com/documentation/cdl/en/allprodsproc/67392/HTML/default/viewer.htm#titlepage.htm>

Documentation, SAS Functions and Call Routines:

<http://support.sas.com/documentation/cdl/en/lefunctionsref/67398/HTML/default/viewer.htm#titlepage.htm>

