# SAS for Economists
## (ECO 5417)
Fall 2021

**Instructor**:         Dr. Simona Andrei
**Meeting Time:**    Mon/Wed 10:40 am – 11:55 am
**Location:**         BEL 0261
**Office Hours:**     Mon/Wed 2:45 pm – 3:45 pm (or e-mail me to set an appointment)
**Office:**           BEL 260
**E-mail**:           sandrei@fsu.edu

**Recommended Text**
The Little SAS Book: A Primer, Delwiche, Lora D. and Susan J.  Slaughter, 6th edition, 2019, Carry, NC: SAS Institute Inc.

**Course Overview**
The objective of this course is to familiarize the student with the SAS programming language and how to use the language to analyze typical economic issues.  Topics covered in this course include how to input and manipulate data, how to perform statistical analyses (including regressions), and more advanced topics such as macro programming.

**Course Assignments and Grading**

Your grade in this course will be based on weekly programming assignments, a midterm exam, a final exam, several pop quizzes, and class participation.  The programming assignments are designed to measure whether you can apply the material presented in class to issues typically encountered in research and analysis.

- Expect to have 8 weekly programming assignments. Your lowest score on the weekly assignments will be dropped.
- There will be 5 pop quizzes throughout the semester. The purpose of the quizzes is to help you stay on top of the material and prepare for the midterm and final exams, both of which will be closed book and on paper (i.e. NOT computer-based projects). Your lowest score on the pop quizzes will be dropped.

Your final grade will be determined as follows:
| | |
|---|---|
| Weekly Assignments: | 40% |
| Midterm Exam (TBA): | 20% |
| Final Exam: | 30% |
| In Class Pop Quizzes (5): | 5% |
| Class Participation: | 5% |

Grading scale: **A: ≥ 90%, 90% > B ≥ 80%, 80% > C ≥ 65%, 65% > D ≥ 45%, 45% > F**

**SAS 9.4** is available via **[myFSUVLab](https://myfsuvlab.its.fsu.edu/vpn/index.html)** at **[https://myfsuvlab.its.fsu.edu/vpn/index.html](https://myfsuvlab.its.fsu.edu/vpn/index.html)**

**Tentative Course Schedule**
**Note**: class topics and assignment due dates are subject to change.  It is your responsibility to check the course's Canvas site for the latest information.

*Section I:  Data Sets/Basic Data Handling*
Introduction, Anatomy of a SAS program, Error-checking
SAS libraries
Inputting data; data formats; handling dates
Variable manipulation; numeric functions, character functions;
IF-THEN; Arrays and Loops;
Procedures:  SORT; PRINT; MEANS; FORMAT.

*Section II:  SAS Procedures/Advanced Data Handling*
Retain, Sum, Output; .FIRST and .LAST
FREQ (Chi-square tests);
CORR; T-TEST; REG; TRANSPOSE;
GLM, PROBIT, LOGISTIC, GENMOD

*Section III:  Advanced Topics*
System options;
Output Delivery System (ODS)
PROC SQL
SAS Macros

**Meeting Outside Office Hours**
Please send me an email if you would like to set up a time to meet outside office hours.  Meetings outside office hours can be in person or on Zoom. You are also welcome to e-mail me the questions you have.

**Public Health Protocols**

In our classroom, **I will expect everyone to wear a proper, well-fitting mask**. As our President has informed the university community, FSU expects everyone on campus to use face-coverings. In regions where virus rates are high, the CDC recommends that even vaccinated individuals wear masks in public indoor spaces, like classrooms, especially where social distancing is not possible. Florida infection and hospitalization rates are greater now than they were at the height of the 2020 surge due to the Delta variant, a more infectious and easily transmissible version of the COVID-19 virus. The best way to protect against serious illness is to be fully vaccinated, but not everyone among us can be. Because the Delta variant can infect even vaccinated individuals and can be spread by them to others, it poses a special threat to members of the community with underlying health conditions and children at home who are too young for vaccination.

For these reasons, FSU expects each member of the community to comply with the public health protocols our President set forth on August 9, 2021, including (1) wearing masks in public indoor spaces, (2) getting fully vaccinated, (3) being tested for the virus if you have symptoms, and (4) staying home and away from others if you are sick. Please remember that you should NOT attend class in person if you have tested positive for COVID-19 or are quarantining after exposure. Finally, please bear in mind that the COVID-19 situation is fast moving and that university guidance on the issue may change at any time.

**Course Recording Permitted**

In this class, consistent with state law and university policy, students are permitted to make recordings of class lectures *for personal use only*. As noted, sharing, posting, or publishing classroom recordings may subject you to honor code violations and legal penalties associated with theft of intellectual property and violations of other state law. Moreover, students and educators have expressed concern that recording classroom activities may negatively impact the learning experience for others, especially in classes that involve questions, discussion, or participation. To protect a learning environment in which everyone feels free to experiment with ideas, we ask you refrain from recording in ways that could make others feel reluctant to ask questions, explore new ideas, or otherwise participate in class. Students must monitor their recording so that they do not include participation by other students without permission. Students with disabilities will continue to have appropriate accommodations for recordings as established by the Office of Accessibility Services.

**Course Recording Not Permitted**

In this class, consistent with state law and university policy, you may not make recordings of classroom activities without the permission of the instructor. This policy applies to both audio and video recordings.

**University Attendance Policy**

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Please note: Because students who test positive for COVID-19 are required to self-isolate for ten (10) days, positive COVID-19 test results, required isolation orders, or documentation of contact tracing should all be considered valid documentation for missing class.

## Academic Honor Policy

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and... [to] strive for personal and institutional integrity at Florida State University." (For more details see the FSU Academic Honor Policy and procedures for addressing alleged violations.)

Put simply, cheating will not be tolerated.  If an instance of academic dishonesty takes place, all students involved will receive a zero for that assignment and the grade may not be dropped.

## Academic Success

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Dean of Students office to learn more.

## Process for Resolving Academic Problems or Grievances

Please use this step-by-step guide to resolving academic problems to begin the process of communicating with your instructor to resolve any confusion or difficulty you may be having in the course. Detailed information on FSU's grievance procedure, including special instructions for students enrolled in an FSU branch campus, is maintained on the General Bulletin's Academic Integrity & Grievances webpage. Out-of-state distance learning students should review the Office of Distance Learning Complaint Resolution page for additional procedures.

## Americans With Disabilities Act

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

To receive academic accommodations, a student:
- (1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- (2) must provide a letter from OAS to the instructor indicating the need for accommodation and what type; and,
- (3) should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the

Office of Accessibility Services (*Tallahassee Campus*)
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
oas@fsu.edu
https://dsst.fsu.edu/oas

Student Accessibility Services (*Panama City Campus*)
Office of Student Affairs
4750 Collegiate Drive
2nd Floor Barron Building (Room 215)
Florida State University Panama City
Panama City, FL 32405
(850) 770-2172 (office)
(866) 693-7872 (toll free)
Email: sds@pc.fsu.edu
https://pc.fsu.edu/students/student-affairs/sas

**Free Tutoring from FSU**

On-campus tutoring and writing assistance are available for many courses at Florida State University. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

*Tallahassee Campus*

For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options - see the Academic Center for Excellence (ACE) Tutoring Services' website (http://ace.fsu.edu/tutoring) or contact tutor@fsu.edu.

**Confidential Campus Resources**

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

[Victim Advocate Program](https://dsst.fsu.edu/vap)
University Center A,
Room 4100, (850) 644-7161,
Available 24/7/365,
Office Hours: Monday-Friday 8am-5pm
https://dsst.fsu.edu/vap

[Counseling & Psychological Services (*Tallahassee Campus*)](https://counseling.fsu.edu/)
Askew Student Life Center, 2nd Floor
942 Learning Way
(850) 644-8255 / (850) 644-TALK
https://counseling.fsu.edu/

[University Health Services](https://uhs.fsu.edu/)
Health and Wellness Center,
(850) 644-6230
https://uhs.fsu.edu/

**FSU Food Pantries**

FSU has established Food Pantries where students in need can pick up non-perishable food items freely and anonymously. The Food Pantry is available during the pandemic, and it is free and open to all students to take what they need. Donations for collection of non-perishable food items are encouraged.

For more information about the Tallahassee Food Pantry, visit the [Tallahassee Food for Thought Pantry website](https://dos.fsu.edu/resources/food-for-thought-pantry) (https://dos.fsu.edu/resources/food-for-thought-pantry). The pantry is located at University Center A, Suite 4148. If you have questions or concerns, contact the Department of Student Support and Transitions at dsst@fsu.edu or (850) 644-2428.

For more information about the Panama City Food Pantry, visit the [PC Food Pantry website](https://pc.fsu.edu/students/student-services/food-pantry) (https://pc.fsu.edu/students/student-services/food-pantry). The pantry is located at Holley West Hall. If you have questions or concerns, contact Kathleen Duval LCSW at krduval@fsu.edu or (850) 770-2174.

**Syllabus Change Policy**

"Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice."

**Prepared by:** Simona Andrei          Date: August 20, 2021