

Undergraduate Course Syllabus

DAD 215: Introduction to SAS

Center: Online

Course Prerequisites

IT 145

Course Description

The SAS programming suite of products is commonly used throughout the industry for analyzing the vast amount of data that are available today and for turning that data into actionable items for an organization. Through the creation of SAS programs of varying complexity, students will solve common data analysis problems and learn the general programming conventions of SAS along with the data management and reporting utilities of the basic SAS product.

Course Outcomes

- Utilize SAS programming best practices for developing logically organized SAS programs that address specific goals
- Utilize appropriate SAS methods for accurately combining SAS data sets and effectively transferring data in other formats
- Apply SAS data manipulation techniques, functions, conditional logic, and iteration appropriately and effectively to SAS data sets
- Analyze SAS programs for the identification and debugging of syntax and logic errors
- Develop descriptive analyses of SAS programs for effectively presenting summarized data

Required Materials

Using your learning resources is critical to your success in this course. Please purchase directly through the <u>SNHU</u> <u>Online Bookstore</u> rather than any other vendor. Purchasing directly from the bookstore ensures that you will obtain the correct materials and that the IT Service Desk, your advisor, and the instructor can provide you with support if you have problems.

Learning SAS by Example: A Programmer's Guide

Ron Cody SAS Institute

2007

ISBN: 978-1-59994-165-3

Exercises and Projects for The Little SAS Book

Rebecca A. Ottesen, Lora D. Delwiche, and Susan J. Slaughter

SAS Institute

Fifth Edition

2015

ISBN: 978-1-62959-655-6

The Little SAS Book: A Primer

Susan J. Slaughter and Lora D. Delwiche SAS Institute Fifth Edition

ISBN: 978-1-59994-725-9

Software Requirement

This course requires use of SNHU's virtual desktop (VDI) environment.

Diversity, Equity, and Inclusion

As indicated in our core values, SNHU is committed to "embrace diversity where we encourage and respect diverse identities, ideas, and perspectives by honoring difference, amplifying belonging, engaging civilly, and breaking down barriers to bring our mission to life."

This may or will be reflected in SNHU's curriculum as we embrace and practice diversity, equity, and inclusion (DEI) to provide the most transformative experience for our students, faculty, and staff. Because topics pertaining to DEI can be sensitive, please remember that embodying and practicing diversity, equity, and inclusion is one of our core values that you will encounter throughout the academic experience. In higher education, we are expected to think and engage critically. Use a growth mindset to embrace the diverse readings, course assignments, and experiences of your peers and faculty.

For more information about DEI at SNHU, please visit our website at the Office of Diversity and Inclusion.

Instructor Availability and Response Time

Your class interaction with the instructor and your classmates will take place on a regular, ongoing basis. Your instructor will be actively engaged within the course throughout the week. You will normally communicate with your instructor in the weekly discussions or the General Questions discussion topic so that your questions and the instructor's answers benefit the entire class. You should feel free, however, to communicate with your instructor via SNHU email at any time, particularly when you want to discuss something of a personal or sensitive nature. Your instructor will generally provide a response within 24 hours. Instructors will post grades and feedback (as applicable) within seven days of an assignment's due date, or within seven days of a late submission.

Grade Distribution

Assignment Category	Number of Graded Items	Point Value per Item	Total Points
Discussion	1	30	30
Peer Critique	1	30	30
Application Activities	9	55	495
Milestone One	1	40	40
Milestone Two	1	65	65
Milestone Three	1	65	65
Milestone Four	1	110	110
Final Project	1	165	165
	1	1	Total Course Points: 1,000

This course may also contain practice activities. The purpose of these non-graded activities is to assist you in mastering the learning outcomes in the graded activity items listed above.

University Grading System: Undergraduate

Grade	Numerical Equivalent	Points
Α	93–100	4
A-	90–92	3.67
B+	87–89	3.33
В	83–86	3
B-	80–82	2.67
C+	77–79	2.33
С	73–76	2
C-	70–72	1.67
D+	67–69	1.33
D	60–66	1
F	0–59	0
I	Incomplete	
IF	Incomplete/Failure *	
IP	In Progress (past end	
	of term)	
W	Withdrawn	

^{*} Please refer to the <u>policy page</u> for information on the incomplete grade process.

Grading Guides

Specific activity directions, grading guides, posting requirements, and additional deadlines can be found in the Assignment Guidelines and Rubrics section of the course.

Weekly Assignment Schedule

All reading and assignment information can be found within each module of the course. Assignments and discussion posts during the first week of each term are due by 11:59 p.m. Eastern Time. Assignments and discussion posts for the remainder of the term are due by 11:59 p.m. of the student's local time zone.

In addition to the textbook readings that are listed, there may be additional required resources within each module.

1 Exploring Data Sets in SAS Learning SAS by Example: A Programmer's Guide, Chapters 1, 2, and 4 1-1 Discussion: Introductions 1-2 Setting Up Your Course Tools (Non-graded) 1-3 Application Activity: Getting Into SAS 1-4 Final Project Review 1-5 Final Project Milestone One: Topic Selection 2 Importing, Exporting, and Formatting Data Learning SAS by Example: A Programmer's Guide, Chapters 3, 6, and 12 The Little SAS Book: A Primer, Chapter 10 2-1 Application Activity Two: Debugging 2-3 Discussion: Debugging Lessons Learned (Non-graded) 3 Combining and Subsetting Data Sets Learning SAS by Example: A Programmer's Guide, Chapters 7 and 10 3-1 Application Activity: Combining and Subsetting Data 3-2 Final Project Milestone Two: Import the Data 4 Working With Arrays Learning SAS by Example: A Programmer's Guide, Chapters 9 and 13 4-1 Application Activity: Working With Arrays 4-2 Final Project Milestone Three: Limit the Data 5 Visualizing Data With Graphics Learning SAS by Example: A Programmer's Guide, Chapter 20 5-1 Application Activity: Generating Graphs 5-2 Final Project Milestone Four: Generate Graphs 6 Basic Statistical Analysis Learning SAS by Example: A Programmer's Guide, Chapters 16 and 17 6-1 Application Activity: Basic Analysis 6-2 Peer Critique: Evaluating Visuals 7 Creating Reports	Module	Topics and Assignments
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7 Creating Reports		6-2 Peer Critique: Evaluating Visuals
	7	Creating Reports
Learning SAS by Example: A Programmer's Guide, Chapter 15		Learning SAS by Example: A Programmer's Guide, Chapter 15
7-1 Application Activity: Creating Reports		7-1 Application Activity: Creating Reports
7-2 Final Project Submission: Data Analysis Report		7-2 Final Project Submission: Data Analysis Report

Module	Topics and Assignments
8	Advanced SAS Topics
	Learning SAS by Example: A Programmer's Guide, Chapters 23 and 25
	8-1 Application Activity: Restructuring Data Sets

Attendance Policy

Online students are required to submit a graded assignment/discussion during the first week of class. If a student does not submit a graded assignment/discussion during the first week of class, the student is automatically dropped from the course for non-participation. Review the <u>full attendance policy</u>.

Late Assignments Policy

Meeting assigned due dates is critical for demonstrating progress and ensuring appropriate time for instructor feedback on assignments. Students are expected to submit their assignments on or before the due date. Review the <u>full late assignment policy</u>.

SNHU Student Handbook

Review the student handbook.

ADA/504 Compliance Statement

Southern New Hampshire University (SNHU) is dedicated to providing equal access to individuals with disabilities in accordance with Section 504 of the Rehabilitation Act of 1973 and with Title III of the Americans with Disabilities Act (ADA) of 1990, as amended by the Americans with Disabilities Act Amendments Act (ADAAA) of 2008.

SNHU prohibits unlawful discrimination on the basis of disability and takes action to prevent such discrimination by providing reasonable accommodations to eligible individuals with disabilities. The university has adopted this policy to provide for prompt and equitable resolution of complaints regarding any action prohibited by Section 504, the ADA, or the ADAAA.

For questions about support services, documentation guidelines, general disability issues, or pregnancy accommodations, please visit the Online Accessibility Center (OAC).

As a student, you must complete an interactive intake process, with supporting documentation, in order to be granted accommodations. Once reasonable accommodations are approved by the OAC, you will receive an accommodations letter. You are then responsible for sharing the letter with your instructor. Accommodations are not retroactive.

If you feel you've been subject to discrimination on the basis of disability, by any party, you may file a complaint or grievance. For more information on the ADA/504 Grievance Policy, go to the <u>Disability and Accessibility Services</u> website.

Academic Integrity Policy

Southern New Hampshire University requires all students to adhere to high standards of integrity in their academic work. Activities such as plagiarism and cheating are not condoned by the university. Review the <u>full academic integrity</u> policy.

Copyright Policy

Southern New Hampshire University abides by the provisions of United States Copyright Act (Title 17 of the United States Code). Any person who infringes the copyright law is liable. Review the <u>full copyright policy</u>.

SNHU Withdrawal Policy

Review the <u>full withdrawal policy</u>.

Southern New Hampshire University Policies

More information about SNHU policies can be found on the policy page.