Caryn Sauls has a BA in Mathematics from Arcadia University. She has been programming since 1997. In addition, she has also held several senior positions in the industry. Her years of experience in the pharmaceutical industry have afforded her extensive knowledge in dataset and analysis output programming, with a strong emphasis on the creation and usage of both SDTM and ADaM datasets using CDISC standards. She has also gained knowledge and experience in the Clinical Trial process (Phase I – IV) in many therapeutic areas.

Textbooks:  
The Little SAS® Book: A Primer, fifth edition  
by Lora D. Delwiche and Susan J. Slaughter  
Validating Clinical Trial Data Reporting with SAS®  
by Carol I. Matthews and Brian C. Shilling

Objective:  
Focusing on the Base SAS® System along with Clinical Trials data, this 3-credit class will provide the student with basic skills necessary to program in SAS. DATA and PROC statements will be described. Reporting techniques using PROC REPORT will be included.

Introduction:  
The SAS System is a powerful and versatile applications development environment, providing the user with an integrated set of tools for programming, data management, analysis and reporting. Regardless of whether you are a seasoned programmer or new to the field, the task of learning the SAS system can be intimidating. This tutorial type class will provide a stepwise approach to learning the SAS system, with examples, discussions and projects all within the pharmaceutical environment.

Grading:  
<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework (weekly)</td>
<td>35% (ZIP file posted by 3pm the following Sunday.)</td>
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<tr>
<td>Class Participation</td>
<td>15%</td>
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<tr>
<td>Quizzes (3)</td>
<td>20%</td>
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<tr>
<td>Final Project</td>
<td>30%</td>
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Homework Assignments NOTE: For each day the homework is late, 1 point will be deducted from the grade. A minimum grade of 1 will be provided if assignment is attempted.

Academic Honesty:  
All homework should be attempted individually, although discussion of ideas and possible solutions with other classmates is acceptable and welcome. The student must complete all quizzes on his/her own. The student must design the final project, but help from the instructor/classmates is acceptable.

Title IX:  
Arcadia University is committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator. The only exceptions a faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project.