



# SAS Programming for High School

Presented by Deborah Seehorn

CS & IT Symposium June 27, 2009



# What is SAS?

- One of the largest software companies in the world
- Leader in business analytics software and services
- SAS once stood for Statistical Analysis Software
- Founded in 1976 by Jim Goodnight and NC State University Colleagues
- World-wide headquarters in Cary, NC

<http://www.sas.com/>



# Evolution of SAS

## Programming for High School

- Developed in partnership with Leslie Keller, Apex (NC) Academy of Information Technology, 2007
- Pilot expanded in 2008 to include 9 more high schools

<http://www.sas.com/corporate/community/sas-programming.html>



# SAS Programming Course Competencies

- **SAS PROGRAMMING  
FUNDAMENTALS**
  - **Introduction to SAS Base Programming**
  - **SAS Basic Reports**
  - **SAS Data Sets**
  - **Advanced SAS Reports**



# SAS Programming

## Course Competencies

continued

### ○ **ADVANCED DATA MANIPULATION**

- **Advanced Data Sets**
- **Advanced Data Manipulation**
- **Reading DATA into SAS**
- **Advanced Record Manipulation**



# SAS Programming for High Schools—Why?

- National HS Reform Effort
  - SAS Programming provides
    - Rigor and Relevance
    - Students may take SAS certification exam to document their skills

Prepares students for high wage, high demand, high skill jobs



# SAS Programming for High Schools—Why?

- SAS programmers are in high demand
  - Technology
  - Marketing
  - Financial services and insurance
  - Pharmaceuticals



# SAS Programming for High Schools—Why?

- SAS software is used in college-level courses
  - Psychology
  - Sociology
  - Statistics
  - Mathematics
  - Business
  - Life Sciences
  - Public Health



# Success Stories

## Student at Weaver Academy in Greensboro, NC

- Placed 1<sup>st</sup> in FBLA Application Programming using SAS programming
- At the NC Future Business Leaders of America (FBLA) State Leadership Conference in April
- Will compete at the FBLA National Leadership Conference in Anaheim, CA in June



# More Success Stories

- Apex Academy of Information Technology Video Clip



- Weaver Academy Video Clip





# SAS Programming for High Schools—Who?

*Who* can teach SAS  
Programming for High Schools?

*Who* can take SAS  
Programming in high school?



# Teacher Pre-requisites

- Have at least **two years experience** teaching programming (JAVA, C++, Visual Basic—*NOT* HTML)
- Be able to **offer at least one section** of SAS programming in your high school during the coming year (2009 – 2010)
- Attend 5-day training at SAS Campus in August (August 3 – 7, 2009)



# Student Pre-requisites

- Must have completed Algebra I
- Must have completed at least one other programming language (Visual Basic, C++, Java)



# School or District Pre-requisites

- One full-credit course
- Traditional or block schedule
- Course must be taught within the next academic year



# Teacher Training, SAS 2008

- August 4 – 8 (5 days)
- 8 Participants from North Carolina (representing 7 high schools)
- 1 Participant from Florida
- 1 Participant from Alabama



# Teacher Training, SAS 2009

## Plan to attend!

- August 3 – 7, 2009
- More information at <http://ww.sas.com/corporate/community/sas-programming.html>
- Or contact Catherine Gihlstorf [catherine.gihlstorf@sas.com](mailto:catherine.gihlstorf@sas.com) for more information and to obtain an application.



# Questions?

