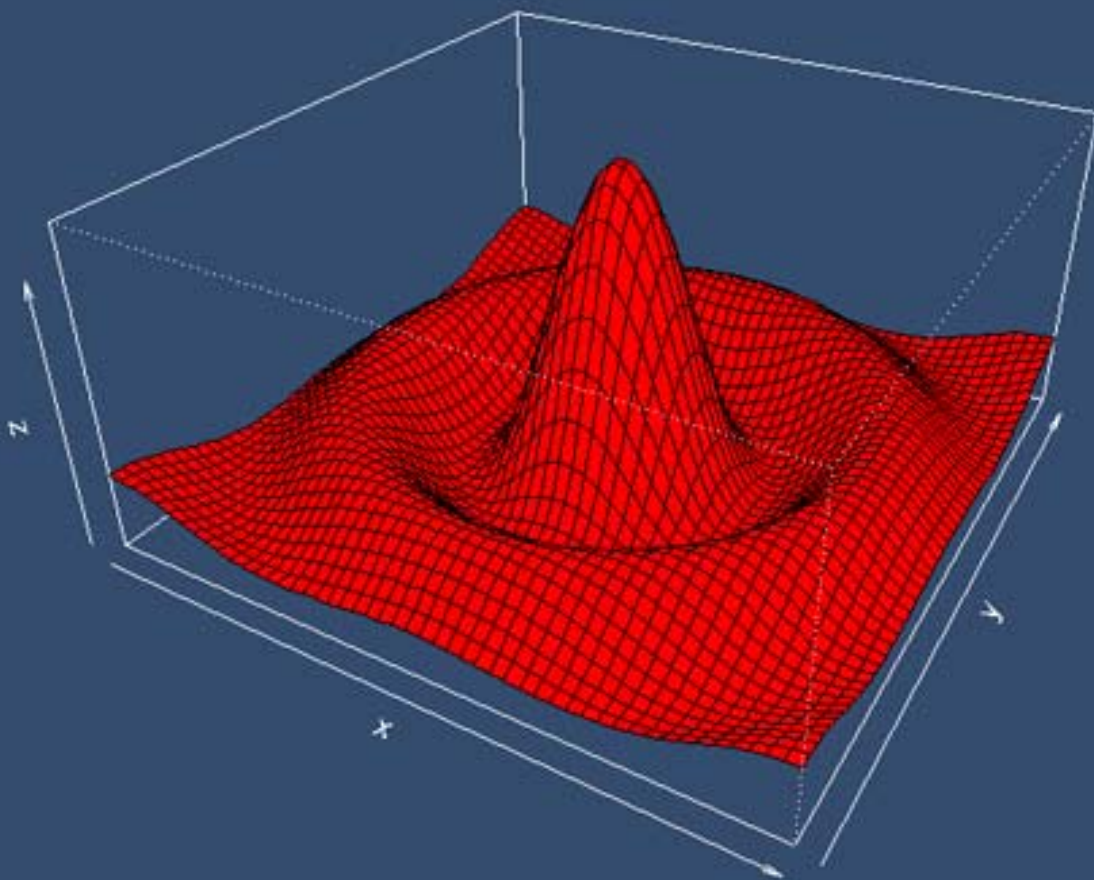




S-PLUS CORE CURRICULUM



S-PLUS Core Curriculum

VR Data Systems offers our S-PLUS Core Curriculum to any individual seeking the education and training necessary to apply simple or sophisticated statistical techniques via industry-leading software packages to create charts and graphs for data modeling and analysis.

S-PLUS software is the premier solution for exploratory data modeling and statistical analysis. With over 4,200 data analysis functions, including the most comprehensive set of robust and modern methods available anywhere, S-PLUS allows you to perform more insightful analyses, create revealing graphics and make more informed business decisions.*

VRDS has over 15 years of experience working with and teaching S-PLUS and its predecessor, S, which was originally developed in Bell Labs.

Courses

Code	Course Title	Length
SCC-400	Introduction to S-PLUS for Windows	2 Days
SCC-405	Advanced S-PLUS for Windows	2 Days
SCC-410	Introduction to the S-PLUS Command Language	2 Days
SCC-415	Advanced S-PLUS Command Language	3 Days

Customized Courses

VR Data Systems will customize any course(s) to suit the unique business requirements of our clients. From the modification of standard curriculum to new course development, we will provide the education and training your organization needs to be more productive in today's competitive environment. Ask a VR Data Systems representative for more information.

About VR Data Systems, Inc.

VR Data Systems, Inc. (VRDS) is a training and consulting firm that specializes in Quality, Statistics, and Data Analysis. For more than 15 years, we have offered comprehensive, hands-on curricula for professionals at any experience level in numerous industries, including Pharmaceutical, Clinical, Manufacturing, Financial, and Software & Hardware Development. Our courses are taught by seasoned instructors who possess long-term expertise in their respective fields – from Sales and Marketing to Finance and R&D.

*from <http://www.insightful.com/products/splus/>

S-PLUS Core Curriculum

SCC-400 Introduction to S-PLUS for Windows

Length: 2 days

Course Goal

Upon completion of this course, the student will have a working knowledge of basic data manipulation and charting using the S-PLUS 6.x graphical user interface (GUI).

Course Description

This course provides the fundamentals for statistical and data analysis using the S-PLUS 6.x GUI. Through various features built into the package, the student learns how to manipulate data with a wide range of basic statistical functions simply by pointing and clicking. In addition, a wide variety of graphs, including basic histograms, box plots, stem and leaf, QQplots, scatter plots, scatter plot matrices and smoothing techniques are discussed.

Broad Topics

- Introduction to the S-PLUS GUI
- Data types in S-PLUS
- Introduction to the Object Explorer
- Viewing and formatting data
- Manipulating data
- Importing and exporting data from files
- Creating and manipulating charts and plots
- Visualizing one, two and multi-dimensional data
- Using statistical techniques with S-PLUS
- Working with objects
- Using S-PLUS with Microsoft Excel
- Using S-PLUS with Microsoft PowerPoint
- Brief introduction to the S-PLUS command line (optional)

Target Audience

Any individual new to S-PLUS for Windows who would like to get up to speed in S-PLUS basics using only point-and-click techniques.

Prerequisites

None.

“Everything should be made as simple as possible, but not simpler.”

-- Albert Einstein

Contact VRDS

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S-PLUS Core Curriculum

SCC-405 Advanced S-PLUS for Windows

Length: 2 days

Course Goal

Upon completion of this course, the student will understand the advanced features of S-PLUS, including interfacing with various databases, embedding S-PLUS objects in a web page and creating sophisticated charts.

Course Description

This course teaches students about the advanced features of S-PLUS 6.x for Windows, including advanced data access, 3rd-party database and application support (including Oracle and SAS), command language basics and advanced graphics customization.

Broad Topics

- Importing and exporting data from ODBC tables
- Interfacing with Excel, Access, Oracle, SAS
- Organizing projects
- Commands window basics
- Writing functions
- Script window
- Calling Java from S-PLUS
- Calling S-PLUS from Java applications
- Trellis graphics
- Editing graphs
- Creating HTML output
- Creating and using Graphlets
- Embedding Graphlets in a web page

Target Audience

This course is a must for any individual who is looking to explore the real power behind S-PLUS. Although topics can be technical, this class is taught in a way that anyone, technical or not, may understand.

Prerequisites

SCC-400 (Introduction to S-PLUS for Windows) or equivalent knowledge.

"Knowledge is power."

-- Francis Bacon

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S-PLUS Core Curriculum

SCC-410 Introduction to the S-PLUS Command Language

Length: 2 days

Course Goal

Upon completion of this course, the student will learn how to work data and charts by using the S-PLUS 6.x command line interface (CLI) and the S-PLUS command language.

Course Description

This course provides an introduction to command line operations for data manipulation, graphing, statistics, and functions in S-PLUS 6.x. Because the S-PLUS CLI is significantly more powerful than the GUI, this course empowers the novice user to have more control over performing various tasks in S-PLUS that are not available by simply pointing and clicking.

Broad Topics

- Introduction to the S-PLUS command language
- Expressions
- Operators
- Using data with the command line
- Modes and types of data
- Using objects with the command line
- Classes of objects
- Common S-PLUS functions
- High-level graphics functions
- Low-level graphics functions
- Basic debugging
- Presentation graphics

Target Audience

This course is for any individual who is looking to go beyond the limitations of the S-PLUS GUI and explore the full capabilities of the S-PLUS 6.x package. Although this course teaches a scripting language, it is taught in a way that will allow anyone to follow without prior knowledge of programming or programming concepts.

Prerequisites

None.

"I hear, I know. I see, I remember. I do, I understand."

-- Confucius

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S-PLUS Core Curriculum

SCC-415 Advanced S-PLUS Command Language

Length: 3 days

Course Goal

Upon completion of this course, the student will understand advanced and detailed functionality using the S-PLUS command line interface (CLI) and the S-PLUS command language.

Course Description

This course teaches the advanced features of the command line, including writing and debugging functions, as well customizing graphics. In addition, the student learns how to interface with S-PLUS through external sources, including custom Java programming. Because of its ability to directly impact the student through significantly improved analysis this course is one of VRDS' most popular offerings.

Broad Topics

- Data objects and data frames in S-PLUS
- Applying functions to subsets of a data frame
- Writing functions in S-PLUS
- Error handling
- Advanced debugging techniques
- Editable graphics commands
- Layouts for multiple plots
- Specialized graphs using custom computations
- Controlling graphics regions, symbols and axes
- Fundamentals of object-oriented programming
- Calling C, C++ and Fortran routines from S-PLUS
- Interfacing with SAS
- Interfacing with Java
- Creating HTML output
- Creating and using Graphlets

Target Audience

This course is a must for anyone looking to get serious about data analysis and looking to master the ins and outs of S-PLUS 6.x. Although individuals who have development experience will benefit the most, anyone who has the correct prerequisites for this course may successfully complete it and help their organization reap the benefits of its application in business.

Prerequisites

SCC-410 (Introduction to the S-PLUS Command Language) or equivalent knowledge.

“When the only tool you have is a hammer, then every problem begins to look like a nail.”

-- Abraham Maslow

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