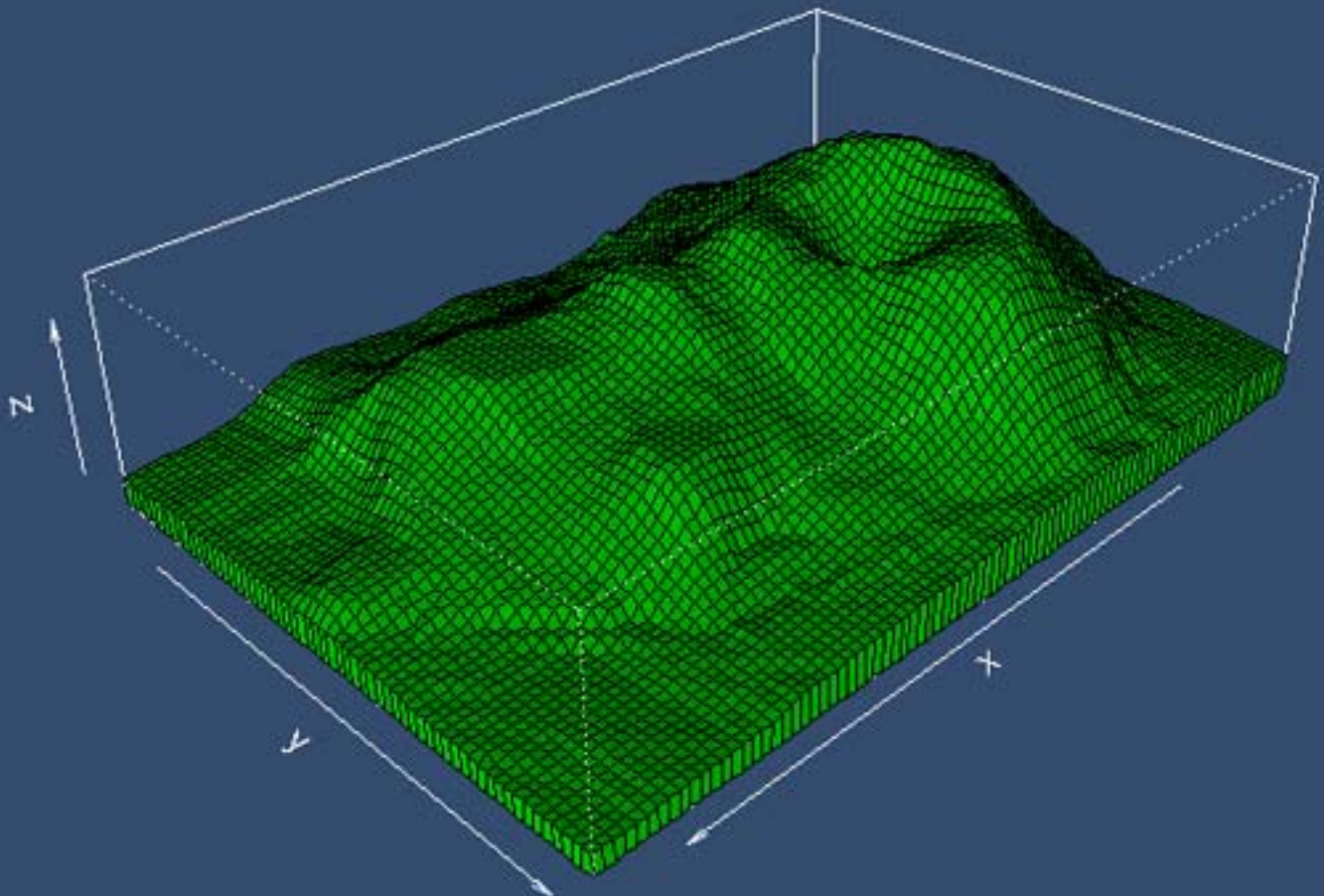




R
CORE
CURRICULUM



R Core Curriculum

VR Data Systems offers our R 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. Aside from its ease of use, R is also ideal because of its affordability compared to the high costs of commercial packages.

R is a language and environment for statistical computing and graphics. It is a GNU project which is similar to the S language and environment which was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. R can be considered as a different implementation of S. There are some important differences, but much code written for S runs unaltered under R. R provides a wide variety of statistical (linear and nonlinear modeling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible.*

VRDS has over 15 years of experience working with and teaching S, the predecessor of R, and we apply that same knowledge base and expertise in our curricula for R.

Courses

Code	Course Title	Length
RCC-300	Introduction to the R Command Language	2 Days
RCC-305	Advanced R 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.r-project.org/about.html>

R Core Curriculum

RCC-300 Introduction to the R Command Language

Length: 2 days

Course Goal

Upon completion of this course, the student will understand how to work data and charts by using the R command line interface (CLI) and the R command language.

Course Description

This course provides an introduction to command line operations for data manipulation, graphing, statistics, and functions in R.

Broad Topics

- Introduction to the R 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 R 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 learn how to use the basics of the R 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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R Core Curriculum

RCC-305 Advanced R Command Language

Length: 3 days

Course Goal

Upon completion of this course, the student will understand advanced and detailed functionality using the R command line interface (CLI) and the R 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 R through external sources, including custom C/C++ programming.

Broad Topics

- Data objects and data frames in R
- Applying functions to subsets of a data frame
- Writing functions in R
- 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 R

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 R. 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

RCC-300 (Introduction to the R 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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