

Module 1 – Introduction

- Course Expectations
- The 4 Levels of Analytics
- The Analytics Lifecycle
- The Datasets
- Data Types

Module 2 – Profiling Your Data

- Understanding Data
- Introducing the skimr Package
- Data Profiling with skimr:
 - Data Summary
 - Character Data
 - Numeric Data
 - Date-Time Data
- Missing Data
- When Numbers Are Not Numbers
- Working with R Factors
- Hands-on Lab 1

Module 3 – The Mighty dplyr

- Introducing the dplyr Package
- Tibbles
- Making Your Own Data
- Selecting Data
- Filtering Data
- Grouping Data
- Summarizing Data
- Arranging Data
- Hands-on Lab 2

Module 4 – Wrangling Strings

- Introducing the stringr Package

- Combining Strings
- String Lengths
- Extracting Substrings
- Detecting Strings
- Replacing Substrings
- Splitting Strings
- Trimming Strings
- Hands-on Lab 3

Module 5 – Joining Data

- Left Joins
- Implementing Left Joins with dplyr
- Inner Joins
- Implementing Inner Joins with dplyr
- Using Multiple Join Conditions

Module 6 – Wrangling Dates

- Introducing the lubridate Package
- Beware, Date-Time Data!
- Date-Time Data & Machine Learning
- Wrangling Date-Time Data
- Parsing Data Strings
- Parsing Date-Time Strings
- Building Date-Times
- Extracting Date-Time Features

Module 7 – Course Wrap-Up

- Additional Resources
- Wanna Kaggle?

Hands-on Lab 4