SCHEDULE

PRE-WORK

- Install R, RStudio. Please access these <u>helpful links</u>.
- Read the <u>raw book</u>.
- Complete a few basic exercises.

Days	Date	Activity	Time
Sess 1 - Tue	July 26	Day 1 – Getting Comfortable with the Environment, Preliminary Programing RStudio setup Basics review and more Saving and sourcing scripts Installing and using packages Data structures Vectors, lists Working with data frames Reading/writing data Reading to/from CSV, readr and readxl packages Reading to/from a database Basic data analysis in R Linear regression Fit a distribution Histograms/kernel density plots Basic visualization Lunch Break AM review Advanced visualization with ggplot2 Introduction to capstone projects Overview of online resources: StackOverflow, r-bloggers	8:00 AM – 12:00 PM (break at 9:30 AM) Lunch 12:00 PM – 1:00 PM 1:00 PM – 5:00 PM (break at 2:30 PM)
Sess 2 - Wed	July 27	Day 2 – RMarkdown, dplyr and Loss Reserving Day 1 review/questions Augment R scripts with RMarkdown dplyr to select, summarize and transform data Lunch break	8:00 AM – 12:00 PM (break at 9:30 AM) Lunch 12:00 PM – 1:00 PM

		o Begin capstone work	1:00 PM – 5:00 PM (break at 2:30 PM)
Sess 3 - Thu	July 28	 Day 3 – GLMs and Advanced Models Day 2 review/questions GLMs Decision trees 	8:00 AM – 12:00 PM (break at 9:30 AM)
		Lunch break O Assisted work on capstone	Lunch 12:00 PM – 1:00 PM 1:00 PM – 5:00 PM
			(break at 2:30 PM)
Sess 4 - Fri	July 29	Day 4 – Further Practice, Capstone	8:00 AM – 12:00 PM (break at 9:30 AM) Lunch 12:00 PM – 1:00 PM 1:00 PM – 3:00 PM (break at 2:00 PM)