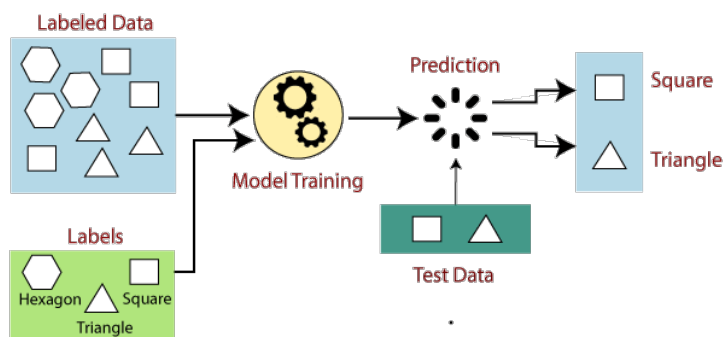


# Probability & Machine Learning in R

A course for high school teachers and VMI grads



## About the Course.....

This course employs a problem-solving format to build from basic principles of counting and frequency towards an understanding of the key concepts of probability and supervised machine learning, a modern tool for making decisions from data. The course will utilize R, an open-source Statistical Computing Package, although no programming experience is required. Instructional methods will include assisted discovery, communication of process and examination of alternate solution routes. Topics will include Bayes' Rule, probability distributions, statistical regression and supervised machine learning.

No coding experience required. Familiarity with basic statistics is helpful, but not required.

\*We realize that 8 hours is too long to sit in front of a computer, so we plan to break up the day in order for students to be able to stretch, take a walk, enjoy some food or what have you. Each day will consist of a mix of live lecture (<25%), small group work using the break-out rooms in Zoom, whole group discussion, and time during the day to sign out of Zoom and work on your own.

**Dates: July 6 — 10**

**Times: 8 AM — 4 PM**  
**(with breaks)**

**Location: Online via Zoom\***

**Instructors: Greg Petrics &**  
**Susan Ojala**

**Credits: 3 (SNHU)**

**Cost: \$1650**

**Questions??** Email Susan Ojala at [susan@vmimathematics.com](mailto:susan@vmimathematics.com)  
or Greg Petrics at [greg.petricks@northernvermont.edu](mailto:greg.petricks@northernvermont.edu)

Registration: <https://www.surveymonkey.com/r/6DSY5T5>

Registration deadline is June 12.