Fall 2020
Computer Science
Special Topics

CS 491-4 / CS 280-1
Monday, Wednesday, Friday
4:00 – 4:50 p.m.
EGRA 320

Instructor – Dr. Chun-Hsi Huang

Computational Statistics I
(Graduate Category 1)

This course provides a basic introduction to probability and
statistics as well as related computational approaches. Topics
include basic probability models, combinatorics, random variables,
discrete and continuous probability distributions, statistical
estimation and hypotheses testing, confidence intervals and linear
regression. Some selected computational approaches for statistical
problems such as simulation of random variables from probability
distributions, the visualization of multivariate data, Monte Carlo
integration and methods in inference will also be discussed. The R
language will be used for programming assignments.

Prerequisite: MATH 108 with a grade of “C” or better

Textbooks: Introduction to Probability, Joseph K. Blitzstein, 2014,