STT 802 Fall 2016 Statistical Computation
(preliminary version 8-26-16)

Professor: Raoul LePage (C428 Wells Hall, 353-3984, lepage@stt.msu.edu).
Prerequisite: STT 442 and MTH 309 (or mathematical statistics and linear algebra).
Time and Place: M W 3:00–4:20pm, A222 Wells Hall
My office hours: Tu Th 11:30pm-1:30pm, or by appointment
Class Website: http://stt.msu.edu/Academics/ClassPages
Textbook: Course material drawn from internet and other sources including portions of comprehensive free book


Final Exam: Thursday, Dec 15 2016 3:00pm - 5:00pm in A222 Wells Hall will not be held for this exam period. I will meet it but you are not obligated to attend. The period will be devoted to answering your questions on any matters related to the course material including career opportunities.

Classes begin/end Wed 8-31-16 / Fri 12-9-16 (classes do not meet 9-5-16, 11-24/25-16).

Software RStudio:
We will be introducing and using the statistical software RStudio is free from https://www.rstudio.com/home
You can install RStudio and R on your own computer or use RStudio already installed in the computer labs on campus. No previous skill with RStudio or R is necessary as we lightly develop them in connection with the topics of the course.

**Attendance:**
You are expected to attend all meetings of the class. Students’ attendance can be checked randomly in class without any prior notice. Graded work will be returned in class. You are responsible to pick it up or immediately make arrangements to pick it up from me.

**Course Grade:**
The Final grade is determined by homework average grade (40%), exams average grade (40%) project and quizzes (20% details as to relative weights of quizzes vs project to follow).

**Remark:**
The instructor reserves the right to make changes deemed academically advisable.

**Academic Honesty:**
The Department of Statistics and Probability adheres to the policies of academic honesty as specified in the General Student Regulations 1.0, Protection of Scholarship and Grades, and in the all-University Integrity of Scholarship and Grades, which are included in Spartan Life: Student Handbook and Resource Guide. Students who plagiarize may receive a 0.0 on the assignment or fail the course. Cheating on an exam will result in course grade 0.0. Examples include sharing information, looking on other’s work, consulting notes which are not allowed, using electronics of any kind (including phones and headphones).

**Assignment 1 (complete before first class):**

A. Read the revealed pages of the Amazon book cited below. Be prepared to raise a question in our first class period. Write your question on a sheet of paper with your name, the date, assignment 1 on it. Make two copies, one to turn in for credit and the second for you. Cite the particular page and topic in the reference, but frame your question so that I and your classmates can understand the general terms of what you are talking about without referencing the citation in class. If you are called on I may open your question for class discussion, possibly supplementing the discussion with my own experiences and understandings.

The following book presents and critiques historical figures and turns of fate that helped position Statistics relative to applied fields in the 20th century:

https://www.amazon.com/Willful-Ignorance-Uncertainty-Herbert-Weisberg/dp/0470890444/ref=pd_rhf_sc_s_cp_2?ie=UTF8&dpID=41tQ5lk7TsL&dpsrc=sims&preST=_SL500_SR90%2C135&psc=1&refRID=6685E9R98J32RWVAA8ZF
B. Statistics is enmeshed in a broad range of new and practical ideas that are sweeping through science and all aspects of modern living. The following panel discussion touches on many important aspects of these developments.

https://www.youtube.com/watch?v=C1zMUjHOLr4#t=5069.572807452

View the video and be prepared to raise a question in first class period or have me call on you. Write your question on a sheet of paper with your name, the date, assignment 1 on it. Keep a copy for yourself and turn in one for credit. Cite the specific time stamp that triggered your question. Frame your question so that I and your classmates can understand in general terms what you are talking about without consulting the video in class.

Mailing the class through the Registrar's class list.
Be sure that the Registrar has your correct email and consult it often.