Marshall University Syllabus
College of Science
Department of Mathematics and Statistics

Course

STA 464 Statistical Computing

Course Description

Introduction to the commonly used statistical computing techniques, procedures and methods, with extensive use of R language and environment.

Credits
3 credits

Prerequisites
STA 445

Term/Year

Fall 2018

Meeting Days/Times

Class will meet in SH 335 on MWF from 12:00 till 12:50 pm.

This course should be completed in one fall term.

Academic Calendar

For beginning, ending, and add/drop dates, see the Marshall University Academic Calendar (URL: http://www.marshall.edu/academic-calendar/).

Instructor

Alaa Elkadry

Contact Information

- Office: WAEC 3231
- Office Hours: MW 2:00-4:00 pm and 5:00-6:00 pm also by appointment, in person or online.
- Office Phone: (304)696-3047
- Marshall Email: elkadry@marshall.edu

Required and/or Recommended Texts and Materials

Required Texts and Materials

No textbook is required. We will be using some references that will be mentioned in class

Technology Assistance

If you have technical problems, please contact one or more of the following:

- [Blackboard Support Center](http://marshall.edusupportcenter.com) (URL: http://marshall.edusupportcenter.com)
- Marshall [Information Technology (IT) Service Desk](http://www.marshall.edu/it/departments/it-service-desk/) (Help Desk) (URL: http://www.marshall.edu/it/departments/it-service-desk/)
  - Huntington: (304) 696-3200
  - South Charleston: (304) 746-1969
  - [Email the IT Service Desk](mailto:itservicedesk@marshall.edu) (itservicedesk@marshall.edu)

Course Purpose

Make students familiar with modern methodologies and issues associated with computational Statistics.

Course Objectives

The student will be able to:

- Use R to implement newly developed statistical methods.
- Use simulation to evaluate statistical studies

Desired Learner Outcomes

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will be more familiar with R programming	Class work	HW and project
Students will use R and knowledge to evaluate statistical studies	Class Activities	project
Students will be more familiar with Latex	Class Activities	HW

Course Requirements/Due Dates

Homework will be assigned approximately every 2 weeks.
Due Dates will be announced during class.
Late submissions won't be accepted.

For each HW you are required to submit a report written using LATEX.

Course Policies

By enrolling in this course, you agree to the following course policies.

Attendance/Participation Policy

You must attend class virtually using Blackboard Collaborate. Attendance is a key to success in this class. It's your responsibility to ask about any material or announcements missed because of any absence.

Grading Policy

Grading Scale

Homework 50% (the HW with the lowest grade will be dropped)

Project 50%

University Policies

By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to [MU Academic Affairs: University Policies](http://www.marshall.edu/academic-affairs/policies/). (URL: http://www.marshall.edu/academic-affairs/policies/)

- Academic Dishonesty Policy
- Academic Dismissal Policy
- Academic Forgiveness Policy
- Academic Probation and Suspension Policy
- Affirmative Action Policy
- Dead Week Policy
- D/F Repeat Rule
- Excused Absence Policy for Undergraduates
- Inclement Weather Policy
- Sexual Harassment Policy
- Students with Disabilities (Policies and Procedures)
- University Computing Services Acceptable Use Policy

Students with Disabilities

For University policies and the procedures for obtaining services, please go to [MU Academic Affairs: University Policies](http://www.marshall.edu/academic-affairs/policies/) and read the section, **Students with Disabilities**. (URL: http://www.marshall.edu/academic-affairs/policies/)

Marshall University E-Mail Accounts

You must have and use your MU email account. Your personal email accounts will not be used for official communication with Marshall University programs and personnel. You may redirect your MU email to your own personal email account, but you must sign in to your MU account to do that**.** Marshall University uses Office 365 email. For more information, visit [Marshall IT: Office 365](https://www.marshall.edu/it/office365/) (URL https://www.marshall.edu/it/office365/).