Marshall University
Syllabus

Course Title/Number	Advanced Mathematical Statistics /MTH 661/101/3100 (3CH)
Semester/Year	Fall/2016
Days/Time	TR/09:30AM – 10:45AM
Location	SH 509
Instructor	Alfred Akinsete
Office	SH 524
Phone	304.696.6010
E-Mail	akinsete@marshall.edu
Office/Hours	11:00AM – 1:00PM on Tues. & Thurs. Any other time by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802. Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment. The policy on university excused absences is provided at the bottom of the syllabus.

Course Description: From Catalog

Topics in mathematical statistics including distribution theory for functions of random variables, convergence concepts, sufficient statistics, finding optimal estimates for parameters, optimal tests of hypotheses.

Required Texts, Additional Reading, and Other Materials

Hogg, R. V., McKean, J. W., and Craig, A. T. (2013). *Introduction to Mathematical Statistics, 7th Ed.,* Boston, MA: Pearson. ISBN – 10: 0-321-82467-9; ISBN – 13: 978-0-321-82467-7

Course Requirements / Due Dates

1. Pre-requisite requirement: Grade C or better in MTH 546, or by permission

2. Behavioral requirement: Students are advised to turn their cell phones and other voice generating devices off prior to entering the class. In the case where a student awaits any emergency call, the volume should be restricted and made personal. Please ensure that other students are respected.

3. Final Exam Day: Tuesday, December 13, 2016 @ 08:00AM – 10:00PM. Venue is SH 509.

Grading Policy. All tests will be given during the regular class sessions. For makeup tests, please see the university's policy on excused absences.

The final grade will be based on the following components:

2 Tests	200 points
Homework Exercises	100 points
Project*	100 points
Final Examination	100 points (Tuesday, December 13, 2016 @ 08:00AM – 10:00AM. Venue is SH 509)
Total	**500 points**

*This will include reviewing, critiquing, contributing and presenting a paper on probability or distribution functions.

The semester grade will be based on the percentage of the 500 total possible points, using the following scale.

%	Point	Grade
90 -100%	[450, 500]	-- A
80 - 89%	[400, 450)	-- B
70 - 79%	[350, 400)	-- C
60 - 69%	[300, 350)	-- D
0 - 59%	[0, 300)	-- F

Attendance Policy

Attendance requirement: Students are advised to attend all scheduled classes. It is the student's responsibility to find out what was discussed in a missed class. Attendance will be taken, but will not be used to compute grades, except possibly in borderline cases. You should note that missing classes can be expected to significantly reduce your chances of success.

Coverage:

The following is a tentative schedule on the coverage of the textbook:

Chapter	**Duration (Wk)**	**Ending Date** (Thursdays, otherwise specified)
Chapter 1	1	August 25
Chapter 2	1	September 1
Chapter 3	2	September 15
Chapter 4	2	September 29
Exam #1:		October 6
Chapter 5	2	October 20
Chapter 6	2	November 3
Chapter 7	2	November 17
Exam #2		November 17
Chapter 8	2	December 8
Final Exam		Tuesday, December 13