

STAT5364 – Applied Multivariate Statistical Analysis
Spring 2018 – Course Syllabus

Instructor : Ananda Manage

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Office Hours : TTh 8:00am – 9:20am & 2:00pm – 3:20pm or by appointment

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Textbook : Applied Multivariate Statistical Analysis Richard Johnson & Dean Wichern,
Sixth Edition

Material Covered: Topics include the multivariate normal distribution, inferences about a mean vector, comparisons of several multivariate means, principal components analysis, clustering, discriminant and classification analysis

Software: SAS, MINITAB, MATLAB

Learning Outcomes: At the conclusion of the course students will have a clear understanding about the above topics with the ability to apply the techniques in real-world problems.

Assessment: Continuous assessment of the progress of the course will occur via ongoing communication between the instructor and students. To this end all students are encouraged to ask questions during class and seek the instructor's help out of class when needed. Please read the sections about HW, quizzes and exams for further details.

Attendance: Class attendance is **extremely important** to succeed in this course. **Late arrival**, leaving class early and forgetting to sign the roll sheet are counted as absences.

Homework & Assignment: Homework and other assignments will be assigned and collected regularly. You are encouraged to work as groups. However, you must write/type your answers **INDEPENDENTLY**.

Missed Work : There will **not** be any **make-up examinations**. Every missed examination will result in zero unless you have a valid (written) excuse from a **proper authority (Example: a letter from Dean of Students)**. In the event your excuse is **acceptable**, the score you earn on the final exam will replace missed exam score. **No make-up quizzes. No late homework will be accepted (even with good reasons).**

Grading Policy:

Midterm Exams	40 points
Homework and Other Assignments	30 points
Class Project	5 points
The Comprehensive Final Exam	25 points

Grading Scale :

90 and above A, 80 - 89 B, 70 - 79 C, 60 - 69 D, 0 – 59 F

Important Dates (Tentative Exam Dates) :

Midterm exam1	- March 01, 2018
Midterm exam2	- April 12, 2018
Last class day	- May 31, 2018
Final examination [1:00-3:00pm]	- May 08, 2018

Civility in the Classroom: Students are expected to assist in maintaining a classroom environment which is conducive to learning. **Please turn off cell phones and beepers. No newspapers. ****NO TEXTING*******

Academic Dishonesty : All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Use of Telephones and Text Messagers in Academic Classrooms and Facilities:

The use by students of electronic devices that perform the function of a telephone or text messenger during class-time is not allowed. Arrangements for handling potential emergency situations may be granted at the discretion of the instructor. Failure to comply with the instructor's policy could result in expulsion from the classroom or with multiple offenses, failure of the course. Any use of a telephone or text messenger or any device that performs these functions during a test period is prohibited. These devices should not be present during a test or should be stored securely in such a way that they cannot be seen or used by the student. Even the visible presence of such a device during the test period will result in a zero for that test. Use of these devices during a test is considered de facto evidence of cheating and could result in a charge of academic dishonesty (see student code of conduct <http://www.shsu.edu/students/guide/StudentGuidelines2010-2012.pdf#page=29>).

Students with Disabilities: It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Disabled students may request assistance with academically related problems stemming from individual disabilities by contacting the Director of the Counseling Center (936) 294-1720.

Religious Holidays: University policy states that a student who is absent from class for the observance of a religious holy day must be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Students must be excused to travel for observance of a religious holy day. A student who wishes to be excused for a religious holy day must present the instructor with a written statement describing concerning the holy day(s) and the travel involved. The instructor should provide the student with a written description of the deadline for the completion of missed exams or assignments.