Syllabus

Instructor : Dr. Sherwin G. Toribio   *email* : storibio@uwl.edu
Office : Cowley Hall 1023   *Tel #* (608)785-6606
Office hours : MTWRF 10:00AM - 11:30AM or by appointment

Course Description : An introduction to simple linear regression, multiple regression, polynomial, and logistic regression. Inferences, appropriateness of model, model diagnostics/adequacy, difficulties in the application of models are discussed. A computer package will be used (R and/or SPSS). Course participants will be involved with hands-on statistical applications and one project presentation. Prerequisites: MTH 405 or MTH 245.

Learning Objectives : After taking this course students should be able to

- Fit and provide inference for simple and multiple linear regression models.

- Diagnose any problems with the fit of simple and multiple linear regression models and provide alternative modeling approaches to remedy these problems.

- Fit and provide inference for general regression models.

- To learn how to use a statistical computer package (R and/or SPSS) to implement the procedures covered in the course.

Textbook : *"Applied Linear Statistical Models"*, 5th ed., by Kutner, Nachtsheim, Neter, and Li.

Grading :

3 Long Exams @ 100 pts each	300 pts
1 Comprehensive Final Exam	200 pts
1 Project report and presentation	100 pts
22 Homework @ 10 points each (drop lowest 2)	200 pts
Total points	800 pts

To get a grade of

A	- one has to get at least 736 (92%) points out of 800.
A/B	- one has to get at least 696 (87%) points out of 800.
B	- one has to get at least 656 (82%) points out of 800.
B/C	- one has to get at least 608 (76%) points out of 800.
C	- one has to get at least 560 (70%) points out of 800.
D	- one has to get at least 480 (60%) points out of 800.

Tentative Exam Dates :

Exams	Dates	Time	Coverage
Exam #1	Oct. 7	Class Time	Chapters 1 to 4
Exam #2	Nov. 4	Class Time	Chapters 5 to 8
Exam #3	Dec. 9	Class Time	Chapters 9 to 14
Final Exam	Dec. 19	10:00 - 12:00 PM	Comprehensive

Make-up Exam Policy : In order to be excused from a long exam, you must have a valid reason and you must discuss the matter with me before the exam. In the event that you miss a long exam due to circumstances beyond your control, the final exam will count for a larger part of your grade.

Homework : Homework will be assigned regularly and they will be due at the start of the next class day. All homework should be neatly written. If you miss a class, it is your responsibility to find out what the homework problems are. Because you can drop 2 of your homework scores, **no late homework will be accepted!**

Attendance : Attendance will be monitored daily and will be considered in the rounding of your final percentage grade. If you miss 2 or less classes, your final percentage grade will be rounded up. If you miss between 3 to 5, your final percentage grade will be rounded to the nearest percentage. If you miss more than 5 class, your final percentage grade will be rounded down. Based on my experience, students start having difficulties when they miss classes. So it is for your own benefit to attend all lectures. If you have to miss a class, make sure that you learn the material that you missed before the start of the next class.

Classroom Courtesy : Please turn off your cellphones and tablets when you get into the classroom. If you have to leave early, please let me know at the beginning of class and make a quiet exit.

Academic Honesty Policy : Academic dishonesty will NOT be tolerated in this classroom. If you are caught cheating in an exam, it will result in an automatic F in that exam and a written reprimand to be included in the student's disciplinary file. Do not even let yourself come under suspicion of dishonesty.

Accommodations : Any student with a documented disability (e.g., physical, learning, psychiatric, vision, or hearing, etc.) who needs to arrange reasonable accommodations must contact the instructor and the ACCESS Center (165 Murphy Library, 785-6900) at the beginning of the semester. Students who are currently using ACCESS Center Services will have a copy of a contract that verifies they are qualified students with disabilities who have documentation on file in the ACCESS Center Office.

NOTE: By now, you should already know that Mathematics/Statistics is not a spectator sport. It requires daily participation, both in the classroom and in the homework. This might be a difficult class for some of you. Find a study partner or a group. Two heads are usually better than one and it makes the work a lot more fun.....

Good luck and I hope you will do well in this course!