

Regression Modeling and Analysis
STAT 5368 – Spring 2018
MW 11 am – 12: 20 pm, LDB 407

Instructor: Dr. Melinda Holt
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Office Hrs: MW 9:30 – 10:30 am
and by appointment

Texts: *Introduction to Linear Regression Analysis*, 5th Edition, by Montgomery, Peck, & Vining

Course Description: Topics include model estimation and testing, model diagnostics, residual analysis, variables selection, and multicollinearity. Work will be required on real data with the use of R, SAS and SPSS statistics packages.

Exams: There will be 2 mid-term exams and a mandatory comprehensive final exam. Exam dates are scheduled for Feb 21 and April 16. The final exam will be held on May 9 (12 – 2 pm). Each of these exams is likely to have a take-home portion. *Makeup exams will **NOT** be given. The lowest exam grade may be replaced by the comprehensive final exam.*

Homework: Homework assignments will be made regularly. These will be collected for a grade and should be presented in an organized, readable format.

Poster: Each student will select a topic to present as a 36 x 48 inch poster. Topics may include an expansion of anything taught in class or an independently selected regression topic. Each topic must be approved by Dr. Holt. Posters will be due the last week of class. For budgetary reasons, these do NOT need to be printed. Plagiarism will NOT be tolerated. It will result in an automatic failing grade.

Grades:	Exams	100 pts each	A	90% – 100%
	HWK	100 pts	B	80% – 89%
	Poster	100 pts	C	70% – 79%
	Final Exam	<u>100 pts</u>	D	60% – 69%
		500 pts	F	below 60%

Notes:

- **Attendance**-You should attend all classes; success in the course depends on this.
- **Classroom Etiquette** – Free discussion, inquiry, and expression are encouraged in this class. Classroom behavior that interferes with either (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable. Examples of such behavior may include routinely entering the class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as "crossing the line of civility." In the event of a situation in which a student legitimately needs to carry a beeper/cell phone to class, prior notice and approval of the instructor is required.
- **Academic Dishonesty** – All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain 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. For a complete listing of the university policy, see: <http://www.shsu.edu/administrative/faculty/sectionb.html#dishonesty>

- **Disability Issues-** It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail disability@shsu.edu). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired. SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see: http://www.shsu.edu/~vaf_www/aps/811006.pdf .
- **Student Absences On Religious Holy Days Policy** – Students are excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. For a complete listing of the university policy, see: http://www.shsu.edu/~vaf_www/aps/documents/861001.pdf
- **Visitors In The Classroom** – Only registered students may attend class. Exceptions can be made on a case-by-case basis by the professor. In all cases, visitors must not present a disruption to the class by their attendance.