

# SYLLABUS: EXST7034 – Regression

Fall 2005

**Class Meets : Tuesday and Thursday from 3:00 to 4:30 in room 248 Ag Admin**

**Professor: JAMES P. GEAGHAN**

**Office** 67 Agriculture Administration Building

**Office hours** Tuesdays and Thursdays after class (or call for appointment anytime)

**Telephone** 578 - 8303

<b>Grading Points:</b> 2 exams @ 100 points each	200
1 final exam @ 150 points	150
Lab assignments count 100 points	100
<b>TOTAL</b>	<b>450</b>

## Exam Schedule

**First Exam** Tuesday, October 4 (Thursday is fall holiday)

**Second Exam** Thursday, November 17, 2005

**Final Exam** Tuesday, December 13, 2005 7:30 AM - 9:30 AM

## Course Grading

**Final Score** = (Exam1% + Exam2% + Homework% + 1.5\*Final%) / 450

<b>Letter grade</b>	Guaranteed minimum grade assignment	
	90 - 100 points, minimum grade of	A
	80 - 89.9 points	B
	70 - 79.9 points	C
	60 - 69.9 points	D

**TEXT** : Applied Linear Statistical Models: 1996. Neter, Kutner, Nachtsheim, and Wasserman. Richard D. Irwin, Inc. Burr Ridge, Illinois. 1408 pp.

**Catalog Course Description:** *EXST7034 Regression Analysis (3) F Prereq: EXST7013 or EXST7014 or EXST7015 or equivalent and knowledge of matrix algebra. Fundamentals of regression analysis, stressing an understanding of underlying principles; response surfaces, variable selection techniques, and nonlinear regression.*

<b>Course Outline:</b>		
<b>Textbook: Neter, Kutner, Nachtsheim, and Wasserman</b>		
<b>Topic</b>		<b>Chapter</b>
<b>Simple Linear Regression</b>		
	<b>Review of Simple Linear Regression</b>	<b>1</b>
	<b>Inferences with Simple Linear Regression</b>	<b>2</b>
	<b>Diagnostics and Remedial measures</b>	<b>3</b>
	<b>Simultaneous inference and special topics</b>	<b>4</b>
	<b>Matrix algebra approach</b>	<b>5</b>
<b>Multiple Linear Regression</b>		
	<b>Multiple Regression</b>	<b>6</b>
	<b>Model evaluation and Curvilinear regression</b>	<b>7</b>
	<b>Selection of predictor variables</b>	<b>8</b>
	<b>Model Diagnostics</b>	<b>9</b>
	<b>Model Remedial measures</b>	<b>10</b>
	<b>Analysis of Covariance</b>	<b>11</b>
	<b>Autocorrelation (Time Series)</b>	<b>12</b>
<b>Advanced Topics (Nonlinear and Logistic regression, time permitting)</b>		

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Last Update: September 11, 2005  
 James P. Geaghan

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