**BIOS 554**
**Analysis of Variance**

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| Instructor: | Kellie J. Archer, Ph.D. |
| Schedule: | Tuesday and Thursday 9:00AM-10:20AM |
| Classroom: | One Capital Square 5009 |
| Office hours: | Tuesday and Thursday 12:00PM-1:00PM |
| Office: | One Capital Square 729 |
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| TA: | Naha Farhat |
| Office: | One Capital Square 711E |
| Phone: | 827-2073 |
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| Required text: | Kutner, Nachtsheim, Neter, and Li. *Applied Linear Statistical Models*, 5th Ed., McGraw-Hill/Irwin, 2005. ISBN-0-07-238688-6 |
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| Supplemental Course Materials: | posted via Blackboard |
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| Homework: | Reading assignment with each class.<br>Problem solving and programming homework assignments. |
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| Exams: | One midterm and one final |
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| Grades: | There will be assigned homework as well as a midterm and final exam. Weighting for the final assigned grade will be as follows: |

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| Homework | 40% |
| Midterm | 30% |
| Final | 30% |

Students must use the VCU Honor Pledge when handing in any take home work. Please refer to the VCU Honor System at `http://www.medschool.vcu.edu/graduate/student_res/honor_system.html`.

The Honor System Pledge is "On my honor, I have neither given nor received aid on this assignment, and I pledge that I am in compliance with the VCU Honor System."

Late homework assignments will not receive any credit.

Software:

- The R programming environment will be used extensively
- SAS will be introduced

Class Rules:

- Read all assignments before class!
- Bring your laptop to class.
- Bring your book to class.
- You must use the VCU Honor Pledge when handing in any take-home work!

Prerequisites: This course is a continuation of BIOS 553 and is aimed at the entering MS/PhD students in the department of biostatistics. Students must have completed BIOS 554 Linear Regression or similar course.

Note : Use of `R` programming environment is required for homework assignments. When submitting homework both solutions and R code are required to be turned in. Instructions for `source()` and `sink()` functions will be provided.