

EMSE 4765/6765 ANOVA ASSIGNMENT SPRING 2024



THE GEORGE
WASHINGTON
UNIVERSITY

WASHINGTON, DC

Exam by: **J. René van Dorp**¹

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Perform the data analyses and answer the questions below in a data analysis report prior to **May 7th, 2026**. You may not work together on this assignment and you should perform your analysis and write the report on your own.

Please provide me with your electronic files and a PDF FILE OF YOUR WRITTEN REPORT UPLOADED ON BLACKBOARD, and a hard copy of your report detailing your analysis steps and conclusions.

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Assignment Description:

A study was undertaken to measure and compare weight gain amongst rats based upon a diet they receive both in terms of the amount and the type of diet. Six random samples of 10 rats were selected and each sample was given a particular diet in terms of amount (high or low) and in terms of type (beef, pork or cereal). The resulting data are provided in the worksheet ("ratfeeddata").

Write a detailed analysis report as if you are conducting the analysis for a client and detail your analysis steps for this client. The contents of the report should address the following:

- a. Perform an Analysis of Variance on the ratfeed data using 5% significance levels.
- b. Perform a diagnostic analysis of the Analysis of Variance under a.
- c. Please state your conclusions.