Marshall University

College of Science

Mathematics Department

MTH 413/513: Experimental Designs

Course catalog description

Principles of experimentation; analysis of variance and covariance; Latin square and related designs; factorial designs, response surface; robustness; nested and split-plot designs.

Credit hours

3 hours

Prerequisites

For MTH 413: A grade of C or higher in a previous course in statistics

List of topics

- Completely Randomized Design
- Randomized Block Design
- Latin Square Design
- Multiple Comparisons of Treatment Means
- Factorial Designs
- Nested Designs
- Analysis of Covariance
- Intro to Response Surface Methodology

Suggested textbooks

- *Applied Linear Statistical Models*, Fifth edition, J. Neter, J. et al. McGraw-Hill/Irwin. ISBN: 978-0-256-11736-3

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