

ANS 6905 Applied Statistics for Animal Sciences Fall 2016

INSTRUCTORS

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TIME & LOCATION

Tuesday and Thursday

Periods 7 & 8 (1:55 PM – 3:50 PM)

Room 102 Animal Science Building (459)

TOPICS

1. Simple Linear Regression
2. Multiple Linear Regression
3. Checking Model Assumptions
4. Model Variable Selection
5. Generalized Linear Models
6. Observational Studies
7. Experimental Design: Basic Concepts
8. Completely Randomized Design
9. Factorial Design
10. Randomized Complete Block Design
11. Latin Square Design
12. Mixed Effect Models
13. Special Topics

COURSE SCHEDULE

Aug 23. Introduction. Simple Linear Regression
Aug 25. Multiple Linear Regression (I)
Aug 30. Multiple Linear Regression (II)
Sep 01. Lab 01: Simple and Multiple Regression
Sep 06. Checking Model Assumptions (I)
Sep 08. Checking Model Assumptions (II)
Sep 13. Lab 02: Checking Model Assumptions
Sep 15. Model Variable Selection
Sep 20. Lab 03: Model Variable Selection
Sep 22. Generalized Linear Models (I)
Sep 27. Generalized Linear Models (II)
Sep 29. Lab 04: Generalized Linear Models
Oct 04. Exam I
Oct 06. Observational Studies (I)
Oct 11. Observational Studies (II)
Oct 13. Lab 05: Observational Studies
Oct 18. Experimental Design: Basic Concepts
Oct 20. Completely Randomized Design
Oct 25. Factorial Design
Oct 27. Lab 06: Factorial Design
Nov 01. Randomized Complete Block Design
Nov 03. Latin Square Design
Nov 08. Lab 07: Block and Latin Square Design
Nov 10. Mixed Effect Models (I)
Nov 15. Paper discussion
Nov 17. Lab 08: Mixed Effect Models
Nov 22. Mixed Effect Models (II)
Nov 29. Special topics (I)
Dec 01. Special topics (II)
Dec 06. Exam II