MATH495.3: CRN 13695
FEScUE Team Research (TRe) seminar

Simon Tavener 117 Statistics Building
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Class 12:00pm–1:00pm Thursday in Weber 223A

Lab 4:00pm–6:00pm Friday in Weber 223A
Required reading: `http://www.math.colostate.edu/FAQ/primes.html`

Office hours 4:00pm–5:00pm Tuesday in 117 Statistics Building

Grading Policy Based on computer laboratories and individual contributions to the final group project

Syllabus

Class work

1. Modeling and sensitivity

2. Discrete probability distributions

3. Continuous probability distributions

4. Discrete time models

5. Continuous time models

6. Sensitivity Analysis

7. Elasticity Analysis

8. Online RCR training

MATLAB laboratories

1. Intro to MATLAB

2. Discrete dynamical systems

3. Stochastic simulation

4. Discrete logistic equation

5. Continuous logistic equation

6. Stage structured matrix models

7. SIR

8. Sensitivity analysis

9. SENSAI

Group project - The LPA model for Tribolium

1. Reading selected papers & discussion

2. MATLAB project

3. Presentation of group project

Tribolium laboratory

1. Prep: March 28, Live: April 4

2. Prep: May 2, Live: May 9