### MME 527 Syllabus 2017

#### **Linear Models II**

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## **Topics:**

## **Linear Programming and Optimization**

geometrical view formulation The Simplex Algorithm Duality Sensitivity Analysis

### **Combinatoric Graphs**

basics

matrix model; powers; eigenvectors application: Google searches

## **Project Management**

PERT/CPM

# **Image Processing Computer Graphics**

homogeneous coordinates

## **Projects**

Diet optimization - late January Bionomial Graphs Google Searches Graphics & images

### Grade

Projects 50% Homework 25% 1 Exam 25%

### **Software Used** (as needed)

Maple Matlab Excel
web based applets
Remote Desktop (WPI computer account needed)