# Mathematical Modeling Fall 2014

Draft Set of Topics - Subject to Change

Exam dates will not change...

| MONDAY | TUESDAY | THURSDAY |
|---|---|---|
| Sep 01 <br> (No Classes) | Sep 02 <br> Discrete Dynamics | Sep 04 <br> Discrete Dynamics |
| Sep 08 <br> The $n-$armed bandit <br> HW Set 1 Due | Sep 09 <br> The $n-$armed bandit | Sep 11 <br> Genetic Algorithms |
| Sep 15 <br> Genetic Algorithms <br> HW Set 2 Due | Sep 16 <br> Genetic Algorithms | Sep 18 <br> Linear Systems, DEs |
| Sep 22 <br> Linear Systems, DEs <br> HW Set 3 Due | Sep 23 <br> Linear Systems, DEs | Sep 25 <br> Nonlinear Systems |
| Sep 29 <br> Catch up/Review <br> No HW Due | Sep 30 <br> **EXAM 1** | Oct 02 <br> Nonlinear Systems |
| Oct 06 <br> Data Clustering <br> HW Set 4 Due | Oct 07 <br> Data Clustering | Oct 09 <br> Data Clustering |
| Oct 13 <br> No Classes | Oct 14 <br> No Classes | Oct 16 <br> Data Clustering |
| Oct 20 <br> Linear Programming <br> HW Set 5 Due | Oct 21 <br> Linear Programming <br> Midsemester | Oct 23 <br> Linear Programming |
| Oct 27 <br> Optimization <br> HW Set 6 Due | Oct 28 <br> Optimization | Oct 30 <br> Optimization |
| Nov 03 <br> Linear Alg <br> HW Set 7 Due | Nov 04 <br> Linear Alg | Nov 06 <br> Linear Alg |
| Nov 10 <br> Review/Catch up <br> No HW Due | Nov 11 <br> **EXAM 2** | Nov 13 <br> Support <br> Vector Machines |
| Nov 17 <br> SVM | Nov 18 <br> SVM | Nov 20 <br> SVM <br> HW 8 Due |
| Thanksgiving Break | | |
| Dec 01 <br> Review Lin Alg | Dec 02 <br> Lin Nets <br> Quiz 9 | Dec 04 <br> Lin Nets <br> HW 9 Due |
| Dec 08 <br> FF Nets | Dec 09 <br> FF Nets <br> Quiz 10 | Dec 11 <br> FF Nets <br> HW 10 Due |

The final exam will be administered at the date/time published by the Registrar. Currently, it is scheduled for Thursday, December 18th 2014 (9-11AM slot).