



# CSC 577: Pattern Recognition

## Fall 2009 Schedule

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	August	Week 0	19	20	21
<b>Course Introduction</b>					
Week 1	24	25	26	27	28
<b>Pattern Classification and Terminology</b>			Last Drop/Add		
Week 2	September 31	1	2	3	4
<b>Mathematics Overview</b>					
Week 3	7	8	9	10	11
<b>Bayesian Decision Theory</b>	<i>Labor Day</i>				
Week 4	14	15	16	17	18
<b>Maximum-Likelihood</b>					
Week 5	21	22	23	24	25
<b>Bayesian Parameter Estimation and Bayes Learning</b>					
Week 6	October 28	29	30	1	2
<b>Principal Component Analysis, Eigen-faces</b>					
Week 7	5	6	7	8	9
<b>Fisher Linear Discriminant</b>	<-- Fall Break -->				
Week 8	12	13	14	15	16
<b>Active Appearance Models, Nonparametric Techniques</b>					
Week 9	19	20	21	22	23
<b>k-Nearest-Neighbors, Fuzzy Classification</b>					
Week 10	26	27	28	29	30
<b>Hidden Markov Models, Phoneme recognition</b>					
Week 11	November 2	3	4	5	6
<b>Linear Discriminant Techniques</b>					
Week 12	9	10	11	12	13
<b>Gradient Descent, Perceptron Criterion</b>					
Week 13	16	17	18	19	20
<b>Minimum-Squared-Error, Ho-Kashyap, Support Vector Machines</b>					
Week 14	23	24	25	26	27
<b>Unsupervised Learning, Clustering</b>				<--Thanksgiving-->	
Week 15	December 30	1	2		
<b>Kernel Methods</b>					

"To choose, it is first necessary to know."

-- Herman Finer

### Required Text:

*Pattern Classification* by Duda, Hart, and Stork