

EE662  
Pattern Recognition and Decision Making Processes  
Spring 2010  
TuTh 12:00-13:15, EE115

Instructor: Prof. Mimi Boutin,  
Office: MSEE342  
Tel: 494-3538  
Email: [mboutin@purdue.edu](mailto:mboutin@purdue.edu)  
Office hours: Tu,Th 13:30-14:20

Course webpage at  
[https://kiwi.ecn.purdue.edu/rhea/index.php/2010\\_Spring\\_ECE\\_662\\_mboutin](https://kiwi.ecn.purdue.edu/rhea/index.php/2010_Spring_ECE_662_mboutin)

Textbook (on reserve at library)

- Introduction to Pattern Recognition, by Keinosuke Fukunaga.

Other Recommended References (on reserve at library)

- Pattern Classification, by Duda, Hart and Stork.
- Pattern Recognition: A Statistical Approach, by P.A. Devijver and J.V. Kittler.
- Pattern Recognition and Neural Networks, by Brian Ripley.

Course grade:

- 50% homework
- 40% homework peer review
- 10% Rhea participation

Material Covered:

Baye's classification,  
Parametric and non-parametric classifier design,  
learning algorithms,  
clustering,  
feature extraction,  
estimation of classifiability,  
classifier evaluation.