EECE 521  Digital Signal Processing
Fall 2008 Syllabus

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Course Web Site: See the “EECE 521” link at http://www.ws.binghamton.edu/fowler/
(HW Solutions will be posted on “Blackboard”)

Check this site often since this website will be used to:
  ▶ convey any important announcements about the course
  ▶ distribute course material (including full Lecture Notes – download and bring to class)
  ▶ post HW assignments and (later, of course) their solutions
  ▶ Etc.

Office Hours: - See Web

Texts:
  ▶ Portions of three other books (these will be made available to you):
    ▶ A Course in Digital Signal Processing, B. Porat
    ▶ Advanced Topics in Signal Processing, J. S. Lim and A. V. Oppenheim
      ▶ Ch. 1 - 3
    ▶ Statistical Digital Signal Processing and Modeling, M. H. Hayes
      ▶ Ch. 8

Prerequisites: An undergraduate course in Digital Signal Processing (e.g., Ch. 1 – 7 of Proakis & Manolakis) and undergraduate-level course in probability and statistics

Quizzes, Exams, & Homework:
  - One midterm exam (Take Home)
  - A cumulative final (during Finals Period)
  - HW will be assigned roughly every week

Tentative Exam Schedule:
  - Midterm, Late-October to Early November
  - Comprehensive Final, during finals period

Course Grade: Homework = 10%
  Midterm = 45%
  Final = 45%
HW: - Due at beginning of class;  
- Roughly one assignment per week  
  - You are encouraged to work (e.g., discuss, get advice from) on HW’s with others, but you must do your own write-up. *In other words, you can get help but you can’t just get the answer. If your write-up is too similar to others you will be penalized.*

Midterm: - Take-Home Exam  
  - You are **NOT** allowed to interact (e.g., discuss, get advice from) with anyone (in person or online). *In other words, you DO IT YOURSELF!*

Final: - During final period… Take-Home Exam  
  - You are **NOT** allowed to interact (e.g., discuss, get advice from) with anyone (in person or online). *In other words, you DO IT YOURSELF!*

How to Maximize Your Partial Credit
The key to getting maximum credit on your work is to make sure that you make it easy for me to figure out what you have done. I can only do that if you present your ideas in a readable, logical, and understandable way. When writing your answers, you will increase your chances of getting partial credit if you:

1. Use drawings and diagrams to explain what you are doing (these don’t have to be elaborate – hand-drawn sketches are fine)  
2. Write legibly (if I can’t read it I can’t grade it)  
3. Clearly state your assumptions.  
4. Indicate why you are doing something  
   a. Tell *what* you are doing and *why* you are doing it!  
   b. E.g., before you take the derivative of something, state *why* you are taking the derivative  
5. Use words to transition between your equations (believe it or not, a string of equations left unbroken by commentary is virtually impossible to decipher – try blacking out all the words in your text book and read only the equations!)  
   a. **If you only write down equations you will get very little credit!! How am I supposed to figure out what you did if all I see is a string of equations!**  
6. Use words to define symbols that are used.  
7. Before you begin your detailed development, provide a brief overview or plan of what you are going to do.  
8. At the end of your development, comment on what the result tells you. *This* is what engineering is all about!!!