

GEORGIA INSTITUTE OF TECHNOLOGY  
SCHOOL OF ELECTRICAL and Computer ENGINEERING

ECE 4270  
Fundamentals of Digital Signal Processing  
Fall 2008

Course Information

**Instructor:** Prof. Faramarz Fekri  
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**Class Hours:** MWF, 13:05 - 13:55

**Office Hours:** Campus Students—Friday 11:00 AM - 12:30 PM (location: TBA)  
Video Students—Friday 4:00 PM - 5:00 PM (via phone/email)

**Text:** Oppenheim and Schaffer, *Discrete-Time Signal Processing*, 2nd Edition, Prentice-Hall, 1999.

**Reference:** Hayes, *Digital Signal Processing*, Schaum's Outline Series, 1999.

**Prerequisite:** ECE 3075 and ECE 2025 or equivalent. In particular, you should know about discrete-time convolution, Fourier analysis, and random variables.

**Grading:**

Homework	15%
Quiz #1	20%
Quiz #2	20%
Final	45%

**Homework:**

The primary way to learn any EE subject is to WORK HOMEWORK PROBLEMS: as many as possible, and work them CAREFULLY. Homework will be assigned weekly on Fridays and will be due at the beginning of the following Friday class (off campus students will turn in their HWK two weeks from the day it is due for campus students). Late homework will NOT be accepted for grading. *Avoid the temptation to use old homework solutions as a short cut in doing the assignments. This practice tends to limit your own understanding of the material.* Homework is to be written up and submitted individually. Working with colleagues is encouraged but simply copying someone else's solution is not acceptable and will be treated as such. Homework will be graded and solutions will be available. The lowest HWK grade will be dropped from final consideration.

**Quizzes:**

Two quizzes will be given. Each will be fifty five minutes long. The present schedule is to hold these quizzes in the first and last weeks of October.

**Class Web Page:**

<http://users.ece.gatech.edu/~fekri/teaching/ece4270/fall2008/main01.html>

**Honor Code:**

Please uphold the academic honor code (see <http://www.gatech.edu/honor/>). Violations will be reported to the office of Vice-President for Student Services for investigation and penalties.

**Excused absences:**

No make-up quizzes will be given. If you are excused from a quiz, the next one will count for the one missed (in case you have to miss quiz 2, your final exam will count for quiz 2). In order to request an excuse from a quiz, a written note from a doctor or other official will be required documenting either the serious illness or other situation beyond your control. The written excuse must be given to Dr. Fekri immediately upon return to GT; no later than 3 days after the quiz.