

GEORGIA INSTITUTE OF TECHNOLOGY
SCHOOL OF ELECTRICAL and Computer ENGINEERING

ECE 4270
Fundamentals of Digital Signal Processing
Spring 2017

Course Information

Instructor: Faramarz Fekri
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Class Hours: TTH, 3:05 PM- 4:25 PM

Office Hours: Thursdays: 10:00 AM - 12:00 PM (location: Centergy-one BLD, room 5238),

Text: Oppenheim and Schaffer, *Discrete-Time Signal Processing*,
3rd Edition (You may use 2nd edition instead), Prentice-Hall, 2010.

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

Prerequisite: Undergraduate Semester level ECE 3075 Minimum Grade of D or
Undergraduate Semester level ECE 3084 Minimum Grade of C or (Undergraduate Semester
level ECE 2026 (old 2025) Minimum Grade of C and Undergraduate Semester level ECE 308
Minimum Grade of D). 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 Thursdays and will be due at the beginning of the following Thursday class. 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. One lowest HWK grade will be dropped from final consideration.

Quizzes:

Two quizzes will be given during class hours. The present schedule is to hold these quizzes in the weeks of Feb. 13 and March 13, respectively.

Class Web Page:

http://fekri.ece.gatech.edu/course_ece4270.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.