

PHYS 7397-SECT 06931
Content ID 280200
Class Time, Days 0400-0600PM, TWTH

CLASS INFORMATION

1. COMPUTATION OF FINAL GRADE

Final Grade will be determined as a weighted combination of the homework, exams and projects. Your lowest homework grade will be dropped. Your letter grade will be based solely on your final weighted grade. This means that failure to do the homework or project assignments can definitely hurt your grade, regardless how well you do on the exams.

- 2 Exams 35%
- Project 50%
- Homework 15%

2. PREREQUISITE: Elementary Math

3. INSTRUCTOR: Dr. Zhuoer Shi
Office: SR1—608A
Work Phone: 713-743-3247
E-mail: zshi@uh.edu
Office hours available: Tuesday & Thursday 10:00-11:00AM

4. TEXT BOOK

- S. W. Smith, *The Scientist and Engineer's Guide to Digital Signal Processing*, California Technical Publishing, ISBN 0-9660176-3-3, 1997.

You can obtain a FREE copy of the book at
<http://www.dspguide.com>

5. LECTURE

It is essential that you attend the lecture and obtain complete and accurate notes. Because the text does not contain all of the material that we will cover. Lecture notes should be relied upon, not the text.

6. HOMEWORK

Homework will be assigned on biweekly basis. Hand-in assignments will be due on Thursday at 5:00PM (in mailbox of Zhuoer Shi, Physics Department). The assignments will be graded and returned to you with solutions on the following Thursday.

7. PROJECT

The project plan includes the computer experiments, one additional 20-minute presentation (for DSP reference reading) during normal class period, and a final project on signal processing. The topic of last project will be scheduled after 4-week lecture. The due date to hand in your last project report is at 6:00 PM on July 15, 1999.

8. EXAMINATIONS

There will be 2 two-hour exams, which will be given during the normal class period. The dates for these exams are fixed as

June 22, 1999

July 14, 1999

The dates for the exams can not be changed. Please schedule your plant trips and interviews so that they do not conflict with these dates. If you must miss an exam for any reason, you should discuss it with the instructor as far as possible in advance of the date of the exam. At the instructor's discretion, you may be allowed to make up the exam, or you may be required to let your final exam will count for that portion of your grade, as discussed below. The instructor's decision will be based on the merits of your case. Only under extenuating circumstances will you be permitted to make up an exam if you have not notified the instructor in advance that you will miss it. All examinations will be closed book. No crib sheets will be permitted. However, some tables or formulas may be provided. This will be announced in advance of the exam. Each exam will typically contain several problems that are similar to homework problems.

9. REFERENCE BOOKS

- Clare D. McGillem, George R. Cooper, *Continuous and Discrete Signal and System Analysis*, Holt, Rhinehart, and Winston, 1984, ISBN 0-03-061703-0
- C. S. Burrus, J. H. McClellan, A. V. Oppenheim, T. W. Parks, R. W. Schafer, and Schuessler, *Computer-Aided Exercises for Signal Processing*, Prentice-Hall, ISBN 0132198258, 1994.
- D. Dudgeon and R. Mersereau, *Multidimensional Digital Signal Processing*, Prentice-Hall, ISBN 0-13-604959-1, 1983.
- A. Oppenheim and R. Schafer, *Discrete-Time Signal Processing*, Prentice-Hall, ISBN 0-13-216292-X, 1989.
- P. P. Vaidyanathan, *Multirate Systems and Filter Banks*, Prentice-Hall, ISBN 0136057187, 1993.