

Department of Electrical Engineering
University of Arkansas



ELEG 4603/5173L Digital Signal Processing Ch. 0 Preface

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GENERAL INFORMATION

- **Instructor: Dr. Jingxian Wu**
 - Email: wuj@uark.edu
 - Phone: (479) 575-6584
 - Office hour: Tue 12:30-1:30

- **Lecture Schedule**
 - Tue. Thu. 11 – 12:15

- **Lab Schedule**
 - Thu. 11 – 12:15 (approximately once every two weeks)

TEXTBOOK AND REFERENCES

- **Textbook (Optional)**
 - Luis F. Chaparro, *Signals and Systems Using Matlab*, Academic Press, 2010.
- **Required Software**
 - Matlab
- **References (optional)**
 - S.S. Soliman, M.D. Srinath, *Continuous and discrete signals and systems*, 2nd Ed., Prentice Hall, 1998.

COURSE INFORMATION

- **Pre-requisite:**
 - Signals and Systems
- **This course involves heavy mathematical derivations**
 - A large number of examples will be given in class – **It's ESSENTIAL for you to repeat all the examples by yourself after class.**
- **Teaching format**
 - Slides
 - Examples
 - Exercises
 - Homework assignments (problems, software)
 - Labs

TENTATIVE SCHEDULE

- Week 1: Ch.1 Discrete-Time Signals and Systems
- Week 2: Ch. 1 Discrete-time Signals and Systems
- Week 3: Ch. 1 Discrete-Time Signals and Systems
- Week 4: Ch. 2 The Z-Transform
- Week 5: Ch. 2 The Z-Transform
- Week 6: Ch. 2 The Z-Transform
- Week 7: Ch. 2 The Z-Transform (**Test 1 on 3/7 Thu.**)
- Week 8: Ch. 3 Discrete-Time Fourier Transform
- Week 9: Ch. 3 Discrete-Time Fourier Transform
- Week 10: Ch. 3 Discrete-Time Fourier Transform
- Week 11: Ch. 3 Discrete-Time Fourier Transform
- Week 12: Ch. 4 Discrete Fourier Transform
- Week 13: Ch. 4 Discrete Fourier Transform (**Test 2 on 4/11 Thu.**)
- Week 14: Ch. 4 Discrete Fourier Transform
- Week 15: Ch. 5 Discrete-Time Filters
- Week 16: Ch. 5 Discrete-Time Filters (**reading day 5/3**)
- Week 17: **Test 3 in the week of 5/8**

GRADING POLICY

- **Grades Percentage**

- Test 1 24%
- Test 2 24%
- Test 3 24%
- Homework 14%
- Lab 14%

- **Grades**

- A: $90 \leq \text{grade} \leq 100$
- B: $80 \leq \text{grade} < 90$
- C: $70 \leq \text{grade} < 80$
- D: $60 \leq \text{grade} < 70$
- F: $0 \leq \text{grade} < 60$

GRADING POLICY

- **Due dates for homework and lab report will be strictly enforced. Late submission **within one week after due** will receive a **20% deduction**; **no credit if submitted one week past due.****
- **If for some legitimate reason (sickness, death in the family, etc.), you cannot take an exam on the scheduled day, you must notify the instructor prior to the exam.**

ONLINE RESOURCES

- **Course Home Page**

- <https://wuj.hosted.uark.edu/teaching/eleg5173/eleg5173.html>
- All the course related materials, such as slides, homework assignments, links, announcements, labs, etc., will be posted on this website.
- Please check the webpage regularly (**at least once per week**) for update.

ADDITIONAL ISSUES

- **Academic Honesty**
 - Each University of Arkansas student is required to be familiar with and abide by the University's 'Academic Integrity Policy' which may be found at <http://provost.uark.edu/>
 - Any kind of activities related to academic dishonesty (copying homework, lab report, code, plagiarism, etc.) will be dealt with.
 - If you are not sure about plagiarism, please contact the instructor.
- **Questions are welcome in my class**
 - You are very welcome to raise any question related to course materials.
 - Please feel free to stop me at any time if you have any question.
 - You can also ask me question via email or during office hours.
- **To respect your fellow students as well as the instructor, please turn off or silencing your cell phone.**
 - **No text messaging or web surfing!**
- **BE ON TIME!**
- **Have Fun!**