

Department of Electrical Engineering
University of Arkansas



ELEG 56903 Wireless Communications Preface

Dr. Jingxian Wu
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GENERAL INFORMATION

- **Instructor: Dr. Jingxian Wu**
 - Email: wuj@uark.edu
 - Phone: (479) 575-6584
 - Office: Bell 3168
- **Office Hours**
 - Tu. 12:30 – 1:30,
 - By appointment

TEXTBOOK AND REFERENCES

- **Required Text Books**

- None.

- **Required Software**

- Matlab with signal processing toolbox
- Available on most lab computers and also on vlab.uark.edu

- **References (optional)**

- “Wireless Communications: From Fundamentals to Beyond 5G”, Andreas Molisch, Wiley, 3rd ed. 2022.
- “Wireless Communications”, Andrea Goldsmith, Cambridge University Press, 2005. ISBN: 978-0521837163”.
- “Principles of Mobile Communication”, G.L. Stuber, 2nd ed., Kluwer Academic, 2001.
- “Wireless Communications: principles and practice”, T.S. Rappaport, 2nd ed., Prentice Hall, 2002.

COURSE INFORMATION

- **Pre-requisite:**
 - Signals and Systems
 - Random Process
 - Communication Theory
- **This course involves**
 - 1. heavy mathematical derivations
 - Please repeat all examples given in class by yourself
 - You can review the materials by watching the video recordings
 - 2. intensive Matlab based exercises and projects
- **Teaching format**
 - Slides, board, exercises
 - Projects (Matlab simulation)
 - Homework assignments

GRADING POLICY

- **Grades Percentage**

- Assignments 20%
- Projects 20%
- Test 1 30%
- Test 2 30%

- **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% grade 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/eleg5693/eleg5693.html>
- All the course related materials, such as slides, homework assignments, lab handouts, links, announcements, etc., will be posted on this website.
- Please check the webpage regularly (**at least once per week**) for update.

ADDITIONAL ISSUES

- **Academic Honesty**
 - Academic honesty is fundamental to the activities of an academic institution.
 - Any kind of activities related to academic dishonesty (copying homework, lab report, code, plagiarism, etc.) will be dealt with on a case-by-case basis and may be grounds for dismissal from the class.
 - 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!**