Purdue University ECE438: Digital Signal Processing with Applications Fall 2015

Instructor: Prof. Mireille (Mimi) Boutin
Email: nb out in at purdue, Office: MSEE 342, Tel-494-3538
Preferred pronouns: She'her/hers (Your instructor will be happy to make note of your preferred pronouns should you choose to share this information with her.)

(Supplementary) Reference: (Not required)
"Digital Signal Processing." 3rd edition, John G. Proakis and Dimitris G. Manolakis, Prentice-Hall, Inc. Englewood Cliffs, New Jersey, ISBN 0-13-373762-4, 1996.

Course Packet: (Required)

essing," Prof. Boutin, Fall 2015. (Pick up at BoilerCopyMaker in PMU.)

Prerequisites:
ECE301, ECE302, and a working knowledge of MATLAB.

- Course Related Webpages:

 Course Wiki: https://www.projectthea.org/rhea/index.php/2015_Fall_ECE_438_Boutin
 Lab Wiki: https://www.projectthea.org/rhea/index.php/ECE438_Lab_Fall_2015
 VISE Lab Web Site: https://engineering.purduc.edu/VISE/

Grades:

Grades:

- Your final grade will be computed as follows:

- Homework 10% (NO late HW accepted but worst score dropped.)

- Laboratory 20%

- Intrasemestrial Exams 20% each (No make up; use final exam grade to replace when absent.)

- Final 30%

- Grades will be uploaded on Blackboard.

- For a re-grade of any homework or exam, you must submit a written request to the instructor.

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- Flee letter grades of off for the course will be set to represent the extent of which the course outcomes have been achieved. In particular, all students who do not meet the lowest threshold of competence for every course outcome will be assigned a failing grade (F). Conversely, all students who meet the lighest threshold for every outcome will be assigned and A grade.

- Plum immag grade will not be assigned.

Students are expected to attend every lecture and every lab. However, it is recognized that, very occasionally, it may be necessary for a student to be absent from class for personal reasons beyond his/her control (e.g., serious illness, family emergency, hereavement, etc.). Missing class is only acceptable if you have such a serious reasons beyond your control. We trust students' honesty and sense of ethics, and thus require no documentation or justification for missing class. However, students who miss class are responsible for making up the material on their own by reading the references listed in the course schedule.

LAUVI AUTY:
The laboratory for this course is the Video and Image Systems Engineering (VISE) lab, in MSEE184. Each student is registered for a mandatory weekly 3 hour lab session. In order to get a passing grade for this course, you must complete and hand in every lab, and you must receive a passing grade for the lab. See the lab syllabus for more details.

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Intra-semestrial Tests

Test I Covers Part I of the material, Tuesday Oct. 20, 2015, 20:00-21:00, ME2061
Test 2 Covers Part 2 of the material, Tursday Dec. 3, 2015, 18:30-19-30, ME2061
- There will be no make-up exams. If you miss an exam for any reason, your final exam grade will automatically be used to replace this exam grade. (No justification needed.)
- Scratch paper will be included with each exam, the work on your seratch paper will not be graded.

Final Exam:

The final exam will be a comprehensive, traditional style (not multiple choice) exams

Classroom Rules

LIBSSFOOM KULES. Unless prior arrangement has been made with the instructor, cell phones and other communication devices must be turned off and stowed away during class.

Please respect your instructor, your TA, and your fellow classmates. Students who act in a disruptive or disrespectful manner (e.g., arriving late, texting, sending email, surfing the web, talking, etc.) will be asked to leave the class.

Policy about sharing course material

All course material is copyrighted. Reproduction, sharing, and posting (e.g. on the Internet) is prohibited without an explicit agreement with the author of the work. This includes course notes (including your own), homework questions, and exams.

- Taking pictures or making audio/video recording of the lectures is prohibited without the instructor's prior approval.

- Taking pictures or making audio/video recording of the recurses is promined without in some procession. If you are caught cheating in the lab (e.g., reading all all from a past student, recursing code from a past, cell, provided in the past lab material you have in your possession the labs of a student who previously took the course, be warned: using these labs as a reference when doing your own is cheating. We recommend that you destroy all the past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from a past student, recursing code from a past, cell, provided in the past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from caught cheating of the past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from cheeting of the past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from past student, reading a lab from past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from past student, recover) and past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from past lab from past lab material you have in your possession. If you are caught cheating in the lab (e.g., reading a lab from past lab

Emergency procedures In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. In such an event, information will be provided through the course wiki.

- ABL1:
 The learning outcomes for ECE438 are:
 An understanding of linear time invariant systems
 The ability to manipulate discrete parameter signals
 Knowledge of how to use linear transforms
 The ability to apply linear system analysis to engineering problems