EE 548 - Information Theory
Fall 2017

Instructor: T. R. Fischer; Office 404 EE/ME Building.
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Office hours: MW 2:15-3:00 pm, Th 1:30-2:30, or by arrangement.


References: Robert G. Gallager, Information Theory and Reliable Communications.

Additional Materials: Selected papers and notes.

Prerequisites: EE 507, or Stat 443, or equivalent.

Course Requirements:

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Homework</td>
<td>30%</td>
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<tr>
<td>Mid-Term</td>
<td>30%</td>
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<tr>
<td>Final</td>
<td>40%</td>
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The basic goal is to cover the text chapters 1, 2, 3, 5, 7, 8, and 9 in detail, and some parts of chapters 4, 10, 13 and 15, as time permits. Some computer programming will be required to do the homework assignments.

Academic Integrity: The WSU academic integrity policy is presented on-line at http://conduct.wsu.edu/ under the “Academic Integrity Policies and Resources” link. It is each student’s responsibility to read and know the policies. (From WSU Online): “Academic integrity is the cornerstone of the university. You assume full responsibility for the content and integrity of the academic work you submit. You may collaborate with classmates on assignments, with the instructor’s permission. However the guiding principle of academic integrity shall be that your submitted work, examinations, reports, and projects must be your own work. Any student who violates the University’s standard of conduct relating to academic integrity will be referred to the Office of Student Conduct and may fail the assignment or the course.”

Information theory is an abstract topic, and discussion of the subject among students is encouraged. You are free to discuss homework assignments. However, all submitted work must be individual effort (i.e., no sharing of computer code or copying of homework solutions from other students) with proper citation of references (e.g., to a paper that includes material contributing significantly to the solution of a homework exercise).

WSU Accommodation Statement: Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All
accommodations MUST be approved through the Access Center. For more information contact a Disability Specialist at 509-335-3417, http://accesscenter.wsu.edu, Access.Center@wsu.edu. Please notify the instructor during the first week of class of any accommodations needed for the course.

**Safety** The University has provided the following statement for all course syllabii: “Classroom and campus safety are of paramount importance at Washington State University, and are the shared responsibility of the entire campus population. WSU urges students to follow the “Alert, Assess, Act” protocol for all types of emergencies and the Run, Hide, Fight response for an active shooter incident. Remain ALERT (through direct observation or emergency notification), ASSESS your specific situation, and ACT in the most appropriate way to assure your own safety (and the safety of others if you are able). Please sign up for emergency alerts on your account at MyWSU. For more information on this subject, campus safety, and related topics, please view the FBIs Run, Hide, Fight video and visit the WSU safety portal.”