Information Theory and Coding

EE5510
Instructor: Professor Zhijun Zhao

Spring 2007
EERC Room 613
zjzhao@mtu.edu
7-2054

Office Hour: 1. TBA. 2. Email appointments
Class Schedule: Tuesday and Thursday 11:05AM – 12:20PM, Room 302 of ME-EM
Midterm: TBA
Final Exam: TBA
Textbook:
1. Elements of Information Theory (Second Edition) by Thomas M. Cover and Joy A. Thomas
   (ISBN: 0471241954)
Course Website:
http://www.ece.mtu.edu/faculty/zjzhao/teaching/InformationCoding_Spring07/InformationTheory.html
Syllabus:
Information Theory:
Selected materials in Chapters 2 – 5, 7 – 10, 13, 15, 17
Coding Theory
Selected materials in Chapters 2 – 7, 9 – 11
General Policy:
1. Academic integrity is strictly enforced during the semester.
2. Cellphones and other electronic devices are supposed to be turned off during class.
3. Students are allowed to discuss homework problems in groups. However, students MUST finish
   and turn in homework solutions individually and independently.
4. No late homework accepted.
5. One single-sided letter-sized cheat-sheet is allow for the Midterm. No electronics devices, in-
   cluding cellphone, calculators, ..., are allowed.
6. Final exam is take-home exam. Students are required to do final exam independently. No
   discussions/collaborations with others are allowed.
7. Optional project for extra credits.
Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm</td>
<td>40%</td>
</tr>
<tr>
<td>Final</td>
<td>50%</td>
</tr>
<tr>
<td>Project</td>
<td>Optional</td>
</tr>
</tbody>
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one page cheat-sheet allowed
compresive take-home exam
extra credits