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Phone: 341-6632  
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American Radio Relay League website: http://www.arrl.org
Blackboard for the course: http://blackboard.mst.edu

**Topics covered (tentative schedule):**

1. Introduction and Pre-test: Chapter 1 (1 week)
2. Review of Signals and Linear Systems (total 3 weeks) 
   2.1 Signals, Fourier Series and Transforms: Sections 2.1 – 2.5 (1 week)
   2.2 Power Spectral Density, Correlation: Section 2.6 (2/3 week)
   2.3 Linear Systems: Section 2.7 (2/3 week)
   2.4 Sampling: Section 2.8 (2/3 week)
   Exam 1 covers chapter 2.
3. Basic Modulation Techniques (total 6 weeks)
   3.1 Linear Modulation: Section 3.1 (1 week)
   3.2 Angle Modulation: Section 3.2 (1 week)
   3.3 Feedback Demodulators: Section 3.4 (1 week)
   3.4 Pulse Modulation, Digital Signaling: Sections 3.5 – 3.6 (2 weeks)
   3.5 Multiplexing: Section 3.7 (1 week)
   Exam 2 covers chapter 3.
4. Baseband Digital Data Transmission (total 4 weeks)
   4.1 Line codes and their power spectra: Sections 4.2 (1 week)
   4.2 Inter-symbol interference and Zero-forcing equalizer: Sections 4.3, 4.5, 4.6 (1 week)
   4.3 Pulse shaping: Sections 4.4 (1 week)
   4.4 Synchronization: Sections 4.7 (1 week)
   Exam 3 covers chapter 4.
5. Review for final exam (1 week)

Final exam covers chapter 1-4.

**Important Dates:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Exam I (in Class, tentative date)</td>
<td>Wednesday, Sep. 23rd, or Friday, Sep. 25th.</td>
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<td>Last day to drop without “WD”</td>
<td>Monday, Oct. 5th</td>
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<tr>
<td>Exam II (in Class, tentative date)</td>
<td>Friday, Oct. 30th</td>
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<td>Last day to drop the course</td>
<td>Thursday, Nov. 12th</td>
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<tr>
<td>Exam III (in class, tentative date)</td>
<td>Wednesday Dec. 2nd or Friday, Dec. 4th.</td>
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<td>Thanksgiving Break (no class)</td>
<td>Monday—Friday, Nov. 23 – 27th.</td>
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<tr>
<td>Final Exam (firm date)</td>
<td>Monday, Dec 14th, 10:30 am–12:30 pm</td>
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Grading:

<table>
<thead>
<tr>
<th>In-class Quizzes (best 5 of 8)</th>
<th>3% each</th>
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<tbody>
<tr>
<td>Exam I, II, and III</td>
<td>15% each</td>
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<tr>
<td>Lab and lab report</td>
<td>15%</td>
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<tr>
<td>Final Exam (firm date)</td>
<td>25%</td>
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Participation in pre-test, survey, and feedback will earn you 1 bonus point each towards your final grade. Letter grades will be given roughly based on the scale: 90-100% =>A; 80-89% =>B; 70-79% =>C; 60-69% =>D, and below 60% =>F. Participation in Radio Club activities will also be given bonus points when final grades are assigned.

Class Policies:
- You are expected to attend every lecture and lab. You are solely responsible for anything you miss in classes, including announcements, handouts, quizzes, and exams, in addition to the course topics discussed in the class.
- Homework will be given throughout the semester. They will not be graded but solutions will be posted. They will help you to prepare for quizzes and exams.
- There will be one or two lab sessions. Lab experiments and lab reports are to be done in groups. Each group consists of three students maximum and needs to submit only one report for each lab. All members of the group have to sign on the submission. By signing your name, you consent that you have participated in solving the problems and understand all material presented in your submission. Peer-rating forms will be used to account for individual efforts.
- All quizzes and exams are closed-book but you can bring a one-page double-sided fact sheet. Quizzes and exams are to be done by each individual student.
- Makeup exams will not be given unless you have a very unusual excuse with the instructor's permission in advance, or a documented medical/family emergency.
- If you disagree with the grading of an exam, quiz, or lab repost, you must contact the instructor within one week from the day the exam/homework is handed back to you. After that time, no request for re-grading will be accepted. A re-grade can result in an increase, a decrease, or no change in the grade.

Important Statements:
- Academic Alert System: [http://academicalert.mst.edu](http://academicalert.mst.edu)
- Classroom Egress Maps: [http://registrar.mst.edu/links/egress.html](http://registrar.mst.edu/links/egress.html)
- Disability Support Services: [http://dss.mst.edu](http://dss.mst.edu)
- LEAD Learning Assistance ([http://lead.mst.edu](http://lead.mst.edu))