CpE111 Introduction to Computer Engineering
Course Information, Summer Semester 2012

Instructor: Amir Bahmani, abww4 [at] mst [dot] edu
Office: CS 208
Office Hours: (Tentative): TTh 10:10 am-11:10 am or by appointment.
Classroom & Classes: EECH 101, M-F, 9:10 a.m. to 10:10 a.m. (1 hour)

Course Objectives: To introduce modern logic and state machine concepts, problem solving and design principles, vocabulary and philosophy of the digital world.

Prerequisites: CSc 53, CSc 73 or CSc 74. Students should enroll in CpE 111 and CpE 112 simultaneously.


• Cheung & Bredeson, *Modern Digital Systems Design*, Thompson Learning
• Nelson, et.al, *Digital Logic Circuit Analysis and Design*, Prentice-Hall
• Haskell, *Introduction to Computer Engineering*, Prentice-Hall

Course Web Site: http://blackboard.mst.edu

Tentative Schedule and Reading Assignments:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Assignments</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Combinational Logic Design Chap. 4 - Givone</td>
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<td></td>
<td>Digital Hardware Chap. 5 – Givone</td>
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<td>CMOS Logic Circuits A.11 – Givone, Supplemental Materials (Chap. 6–Uyemura)</td>
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<td>2</td>
<td>Memory Elements Chap. 6 – Givone</td>
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<td>Sequential Logic Design Chap.s 7 and 8 – Givone</td>
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<td>Computer Basics (Optional) Supplemental Materials (Chap. 11 – Uyemura)</td>
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<tr>
<td>3</td>
<td>Final exam: July 26 (Thu), 10:30 am - 12:30pm</td>
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<td></td>
<td>The classroom for the final will be announced later.</td>
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Grading:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>24%</td>
<td>Assignments</td>
</tr>
<tr>
<td>17%</td>
<td>Exam 1: Friday, June 22</td>
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<tr>
<td>17%</td>
<td>Exam 2: Friday, July 6</td>
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<tr>
<td>17%</td>
<td>Exam 3: Friday, July 20</td>
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<tr>
<td>25%</td>
<td>Final exam: July 26 (Thu), 10:30 am - 12:30pm</td>
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- Attendance on the day of the exam is expected. Prior written notification is required if unable to attend an examination period.
- On both exams and homework problems, for partial credit to be awarded, work/derivation must be shown.

Homework Assignment Policy:

- Homework assignments will be due AT THE BEGINNING OF CLASS on the date due.
- LATE PENALTY is 20% per each ACADEMIC DAY within 48 hours of the time it is due. NO CREDIT after that.
• Homework will include selected problems from the text and from the instructor.
• Assignments will also be posted on the course web site.

**Final Exam Policy:**
In order to receive a passing grade for the course, the student must get a C grade or better in the course material and a C grade or better on the common final exam. If a student earns a non-passing grade on the final exam, the student’s grade for the course will be adjusted to a non-passing grade, regardless of the student's grade preceding the final exam. A student, who would pass the course otherwise, except for the final exam, is given one opportunity to retake the final exam.

**Collaboration Policy:**
• Discussion of techniques and ideas covered in class is encouraged. However, every line of on all assignments must be YOUR OWN.
• In exams and quizzes, no discussion of any kind (except with the instructor) is allowed.
  No access to any type of written material is allowed.

**Miscellaneous Policies:**
Questions are highly encouraged. I am here to help you learn the subjects. Please do ask questions! On-time attendance and attentiveness will be the primary factor in judging borderline grades. Collaboration on homework is permitted; academic dishonesty, e.g. plagiarism, is not. A student should be able to explain and replicate one’s own solution to homework assignments.

**Academic Alert System:** [http://academicalert.mst.edu](http://academicalert.mst.edu)
All faculty are encouraged to utilize the online Academic Alert System. The purpose of the Academic Alert System is to improve the overall academic success of students by improving communication among students, instructors and advisors; reducing the time required for students to be informed of their academic status; and informing students of actions necessary by them in order to meet the academic requirements in their courses.

**Disability Support Services:** [http://dss.mst.edu](http://dss.mst.edu)
Any student inquiring about academic accommodations because of a disability should be referred to Disability Support Services so that appropriate and reasonable accommodative services can be determined and recommended. Disability Support Services is located in 204 Norwood Hall. Their phone number is 341-4211 and their email is dss@mst.edu. Instructors may consider including the following statement on their course syllabus as a means of informing students about the services offered:

"If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that the Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation."

**Academic Dishonesty:** [http://registrar.mst.edu/academicregs/index.html](http://registrar.mst.edu/academicregs/index.html)
Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage. Additional guidance for faculty, including the University’s Academic Dishonesty Procedures, is available on-line at [http://ugs.mst.edu](http://ugs.mst.edu).

**Classroom Egress Maps:**
Faculty should explain where the classroom emergency exits are located. Please include a statement in your course syllabus asking the students to familiarize themselves with the classroom egress maps posted on-line at: [http://registrar.mst.edu/links/egress.html](http://registrar.mst.edu/links/egress.html).

**LEAD Learning Assistance**
[http://lead.mst.edu](http://lead.mst.edu)
The Learning Enhancement Across Disciplines Program (LEAD) sponsors free learning assistance in a wide range of courses for students who wish to increase their understanding, improve their skills, and validate their mastery of concepts and content in order to achieve their full potential. LEAD assistance starts no later than the third week of classes. Check out the online schedule at [http://lead.mst.edu/assist](http://lead.mst.edu/assist), using zoom buttons to enlarge the view. Look to see what courses you are taking have collaborative LEAD learning centers (bottom half of
Important class schedule:

Please ensure to check the full class schedule at
http://registrar.mst.edu/media/administrative/registrar/documents/calendars/ss12dates.pdf

It is students’ responsibility to study and get familiar to the syllabus.
Please do study the syllabus and ask if you have any question.