

# SYLLABUS

## CPSC 483, Computer System Design Fall 2006

MW 3:00 – 3:50 PM (HRBB 104)  
Labs: MW 4:00-6:00 PM (HRBB 218)

**INSTRUCTOR:** Dr. Rabi N. Mahapatra

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Office Hours: by appointment  
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**LEARNING OBJECTIVES:** At the end of this course you should

- *Be able to learn computer system design techniques starting from design specification to final implementation.*
- *Understand to apply modern design methodology using hardware software integration approach for successful system design.*
- *Be able to work in team environment, manage technical presentation and learn prototype development during design cycle.*
- *Be able to optimize and tune design components (IP core, software, and driver) at various stages of system design.*
- *Be able to develop project evaluation strategies and estimate the cost of prototype for individual design on target application.*
- *Be able to experience technical writing to document the design steps and produce project reports.*

**COURSE PRE-REQUISITES:** CPSC 431 and 462; Senior Classification

### COURSE REQUIREMENTS

1. Lab assignments	5%
2. Technical presentations	15%
3. Report writing	25%
4. Design & Prototyping	45%
5. Team work	10%

### GRADING SCHEME

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
< 60	F

There will be three technical presentations (proposal, midterm and final) for each group. The design reports are to be documented bi-weekly for regular record and major grading will be considered for midterm and final reports. The midterm and final design prototypes will be demonstrated by each group for major grades. The grading for the team work will consider inputs from individual team members. The detail formats and requirements for each of the above category will be announced in the course website.

### TEXTBOOKS:

There are no formal text books for this course. Various websites and internally generated technical manuals will be provided by the instructor from time to time. Course website at <http://courses.cs.tamu.edu/rabi/cpsc483/> will be the source of detail information for this course.

### ATTENDANCE POLICY:

Attendance is expected. Unavoidable absences are understood, but each student is responsible for any missed material. For excused absences, an opportunity will be provided to make up any graded work that was missed. If you are going to be absent when a lab is due you should try to turn in the lab early. If that is not possible, be sure to include a request for an extended lab turn-in time in your e-mail. To request approval of an absence, send me an e-mail explaining the reason for the absence. Tell me if you believe it is a university excused absence. I will approve most requests provided I receive them prior to the class or lab.

If advance notification is not possible (e.g. unexpected illness), send the e-mail within 48 hours of the absence and be sure to explain why you were not able to notify me in advance.

#### **LAB ASSIGNMENTS:**

The lab assignments are due during first three weeks of the semester. You are responsible to complete the assignments as directed and demonstrate the working assignments to your TA for grading. A technical report is required for assignments as directed by your TAs.

#### **SCHOLASTIC DISHONESTY:**

Scholastic dishonesty will not be tolerated. Working together on assignments is encouraged, but the final product submitted for grade **must be the individual or designated group work**. In other words, it is all right to discuss and to assist each other concerning programming strategy or technique or for one student to help another debug code which will not work; but each student is expected to write **his or her own programs from beginning to end**.

Plagiarism is the presentation of the work of someone else without giving him or her due credit. You can copy the words of others as long as you clearly identify them as such. Submitted **work will be examined for plagiarism**. Examinations are meant to measure the knowledge or skill of each individual or group, so **giving or receiving** unauthorized assistance is cheating. It is assumed that college students know what is honest and what is not. Any identified instances of scholastic dishonesty will be dealt with in accordance with the procedures outlined in the University Student Rules.

#### **STUDENTS WITH DISABILITIES:**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with disabilities in room 126, Koldus, or call 845-1637

#### **CPSC483 - Fall 2006 Schedule \***

All due dates are as listed (Monday or Wednesday)

Proposals, Midterms and Final Presentations will be during the week in regular class time

<b>Events</b>	<b>Date Due</b>
Pre-Proposal	09/11/06
Proposal	09/18/06
Bi-Weekly 1	10/02/06
Bi-Weekly 2	10/16/06
Mid-Term Present	10/25/06
Bi-Weekly 3	11/08/06
Bi-Weekly 4	11/22/06
Final Present	11/29/06

\* This is a planning schedule. It may be modified as necessary during the course.