Digital Electronics & Computer Engineering (E85)

Harris **Spring 2001**

Syllabus

Teaching Staff

Professor:	David Harris	Parsons 2374	x73623	David_Harris@hmc.edu
Lab Assistant:	Sergio Rodrigues	Linde 144	x71434	Sergio_Rodrigues@hmc.edu
	Tafique Kazi	Atwood 217	x74798	Tafiqul_Kazi@hmc.edu


David Harris


Sergio Rodrigues


Tafique Kazi

Schedule

Lecture:	MWF 10-11
Office Hours:	TBD
Lab Hours:	T20:30-22:30, others TBD
TBΠ Tutor Hours:	TBD

I am in my office more often than not, so feel free to stop by even if I do not have official office hours.

Text

Patterson & Hennessy, *Computer Organization & Design*, 2nd Edition Morgan Kaufmann 1998.

Electronic Communication

Class web page: http://www3.hmc.edu/~harris/class/e85
Class email list: eng-85-l

Be sure to check that you are on the class email list. You should have received email before the beginning of classes. If you did not receive mail, add yourself to the list or risk missing important late-breaking announcements. To subscribe, send email to listkeeper@hmc.edu with one line in the body:

subscribe eng-85-l

You also will need a computer account in the Engineering Design Center to complete your labs. If you do not have one or have forgotten your password, see a system administrator.

Grading

Labs:	25%
Problem Sets:	20%
In-Class Activities:	15%
Midterm:	15%
Final:	25%

The only way to really master the material in this class is to design a microprocessor. The labs in this class build upon each other until you design your own 32-bit MIPS microprocessor in Labs 10 and 11. You **must** complete these labs and demonstrate a working microprocessor to pass this class.

Solutions to the labs from previous semesters are undoubtedly floating around campus. You may **not** refer to solutions while doing the labs; they must be your own work. Many of the labs build on previous labs. If you are sick or do not turn in a lab, you may refer to the solutions handed out to complete the lab when it is needed for a subsequent lab. However, you may not simply copy another student's files.

Labs and homework are due by the end of class and will not be graded if submitted late. However, even if you do not complete your microprocessor on time, you must still submit it before the final exam to pass the class. Your lowest lab and homework score will be dropped before the average is calculated. You are welcome to discuss labs and problem sets with other students or with the instructor or lab assistants or tutors **after** you have made an effort by yourself. However, you must turn in your own work, not work identical to that of another student. Be sure to credit at the top of your assignment anyone with whom you discussed ideas. **It is an honor code violation to simply copy someone else's work.**

On average once a week, there will be a short in-class activity related to the current lecture material or a recent lecture. You are strongly encouraged to come to regularly attend class, review your notes before class, and ask questions during class. If you stay on top of the material, you should have no difficulty doing well with these activities. The two lowest scores will be dropped.

Tentative Schedule

The attached schedule is a tentative plan that may change during the semester. The deadlines, however, are fixed unless otherwise notified; *do not assume* that they will change just because the lecture schedule changes.