CPE100: Digital Logic Design I

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Introduction

Course Information

Class Website

- http://www.ee.unlv.edu/~b1morris/cpe100

- This will have the most up-to-date information about the class.
  - Weekly schedule
  - Tentative dates for exams
  - Homework assignments

- Syllabus – Full course description online

WebCampus Usage

- Panopto Recordings for pre-recorded lecture
- WebEx for synchronous discussion
- Assignments for homework + exam submission
- Grades for tracking points in the gradebook

- Will include course Modules from textbook author (Dr. Harris, UNLV)
  - Be aware the class website (not WebCampus) has definitive course info

Instructor

- Dr. Brendan Morris
- Office: SEB 3216
- Office Hours
  - TTh 16:00-17:15 (during Discussion "lecture")
  - Email for appointments at other times – both in-person/virtual
  - Best contact is email < brendan.morris@unlv.edu >

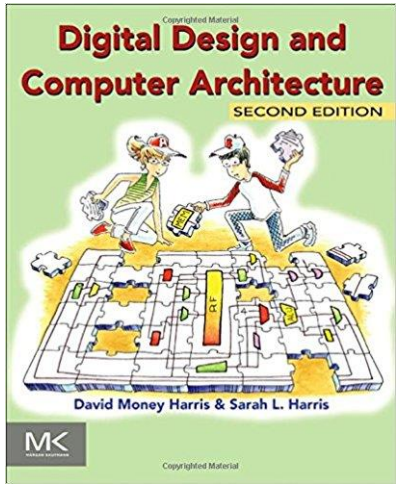
- At UNLV since 2011
- Mostly teach EE courses but research is in Computer Vision (CS area mainly)

Important Dates

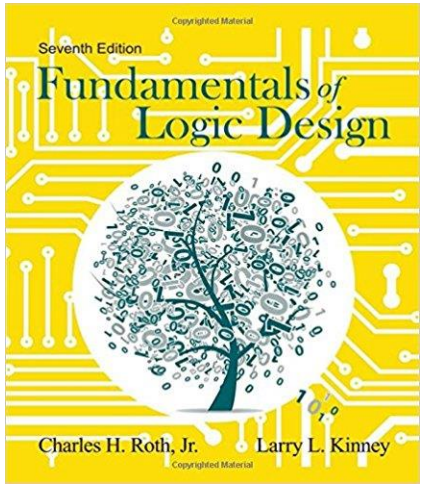
- Discussion "Lecture" (Q&A)
  - TTh 16:00-17:15, SEB 1242
- Final
  - Tu Dec. 13 18:00-20:00
  - Look up your final exam schedule now to determine conflicts
- Midterms (tentative)
  - 10/06, 11/17

Textbook

- Required
  - Digital Design and Computer Architecture, Harris and Harris, 2nd Edition [direct link] [library link]
  - ISBN: 9780123944245



- Recommended
  - Fundamentals of Logic Design, Roth and Kinney, 7th Edition
  - ISBN: 9781133628477



Grading

- Midterms (2): 40%
- Final: 25%
- Homework: 25%
- Participation: 10%

- Use a typical scale (grade positive-curved for avg around C+)

A-	0.90-0.92	A	0.93-1.00		
B-	0.80-0.82	B	0.83-0.86	B+	0.87-0.89
C-	0.70-0.72	C	0.73-0.76	C+	0.77-0.79
D-	0.60-0.62	D	0.63-0.66	D+	0.67-0.69
		F	<0.60		

Homework

- One homework assignment a week
- Homework will include logic design software to build and test digital circuits. Students may work together in study groups but all assignments must be completed individually.
- Homework will be due as indicated on Webcampus. No late homework will be accepted unless prior notification and arrangements are made.

- Start early
  - Give yourself plenty of time to work through problems completely and get answers to questions before submission
  - Avoid technical glitches → use phone scanning app

Exams

- Will be in-person during normal lecture times
- Will be comprehensive but will emphasize newer material
- Will be closed book, closed notes, no calculators
  - Will be provided equation sheets where needed
- Significant portion of your final grade. Be sure to prepare early by asking questions in discussion lecture

Participation

- Progress will be tracked using online class quizzes
  - Short quizzes associated with each “lecture”/Discussion
  - Intended to help you identify areas that require more clarification
  - Administered via Webcampus
- Not insignificant – 10% of grade
  - Each quiz is worth 5 points → an individual class or problem will have very little effect on your final grade
  - Quizzes will have >5 points possible, allowing you to miss some questions without grade penalty

- Class quizzes are a tool for you to get help and practice questions under lower stakes constraints (e.g. timing)

Lectures and Reading

- Pre-recorded lectures available through WebCampus using the Panopto Recordings navigation link
  - Will have captions and text search
- Synchronous "lecture"/Discussion/OH will be recorded and made available through WebEx
- Supplementary material available in Modules from Dr. Harris

- Reading the book actually helps
  - Please come prepared to class having read content
  - Ask questions during the discussion

- Workload – expectation is for about 9 hours on average per week (including "lecture" time)

Policies

- As a university student it is your responsibility to conduct yourself ethically and with integrity as described in the Academic misconduct Policy. Cheating and plagiarism will not be tolerated. Any student caught cheating will be given an F grade. (https://www.unlv.edu/studentconduct/misconduct/policy)

- Please take advantage of the Engineering Tutoring Lab
  - In-person sessions during the day (TBE B309)
  - Virtual sessions in the evenings and on Sunday

A Respectful Classroom Environment

- Covid-19 still poses challenges for us all, please let me know if you have any issues
- We are all in this together, let's help one another succeed
- Everyone's life situation is different and the challenges we face are not always apparent. We must have a safe environment for participation
- There are no dumb questions. Only by asking will you get your questions answered
- I expect we will all interact respectfully with one another

Tips for Success

- **Participate**: Attend discussion session and take part.
- **Practice**: Spend ample time on homework and other problems. Don't wait until the last moment to cram
- **Question**: Do not be afraid to ask questions.
- **Network**: Find people taking the same courses as you and build study groups.
- **Review**: Don't just do what is asked in class. Find extra practice problems.
- **Be RESPONSIBLE**: You are an adult and must be responsible for your academic career.

Questions?