# Introduction to CS47, Sec01

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Instructor: Kaushik Patra

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• SJSU Alumni from CMPE

• Fifteen years in Electronic Design Automation (EDA) industry, currently working at Mentor Graphics.

• Worked for Texas Instruments, NeoMagic, SUN Microsystems, ORALCE, Synopsys.

- Welcome to CS47, Section 01.
  - Mon / Wed DH135 @ 6:00 am 7:15 pm.
  - Office hour DH282 @ Mon/Wed 4:30 pm 5:45 pm.
- All the correspondence will be done using 'canvas'.
  - http://www.sjsu.edu/at/ec/canvas/

- All the homes works and project submissions will be in electronic format (PDF or ODT or DOC or source code). No scanned copy of hand written solution will be accepted as valid submission.
- It is recommended to set the notification to email / text immediate.

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- Course prerequisite
  - CS 46B or equivalent with C- or better.
- Students must complete pre-requisite survey and upload proof of eligibility through CANVAS quiz.
  - Upload the proof by 08/26 midnight.
  - A digital copy of unofficial transcript clearly showing student name, student ID and grade in CS 46B to be uploaded.
    - · Upload equivalency form if needed.
  - Include academic standing (junior / senior / graduate). If senior, please attached a scanned copy of the senior card.
  - Students unable to send proof by 08/26 midnight will not get any add code or will be dropped from the class.
- Add code will be sent by 09/02/15 mid-night via email.
- It is assumed that the students already have basic knowledge of digital logic and fundamentals of assembly language machine programming.
- If you are not yet on Canvas and waiting to be added in the class, please send email to kaushik.patra@sjsu.edu.
- All student must submit their proof of eligibility into Canvas.

- Students not on canvas (waiting for add code) must sent email tonight after the class today to kaushik.patra@sjsu.edu with the following information.
  - Subject should be '[CS47,03] Request for canvas access'
  - Name
  - Student ID
  - SJSU registered email

- If any student **misses any two meetings** within first 3 meetings, that student will be **dropped** from the class.
- Each class session has lecture and hands-on
  - Lecture will be live (with reservation of some exception)
  - Hands on are part of lecture when needed.

- There will 2 homework and 1 projects.
  - Homework carries 20% towards final score.
  - Project carries 30% towards final score.
- There will be one midterm and final exam.
  - Midterm carries 20% towards final score.
  - Final carries 30% towards final score

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- Average of 2 score from homework will be contributed to your final grade.
- Score from projects will be contributed to your final grade.
- Projects are individual projects.
- Submission is allowed till 11:59 pm on due date.
  Zero delay tolerance for the submission, i.e. NO late submission is permitted, unless you make special arrangements with your instructor beforehand.
- There will no makeups for missed mid-term or assignments, unless any special arrangement is made with the instructor beforehand.

- Project reports are recommended to be submitted in IEEE format.
  - http://www.ieee.org/conferences\_events/conferences/publishing/templates.html
- Project report should contain the following.
  - Introduction containing objective.
  - Requirement.
  - Design and Implementation.
  - Testing
  - Conclusion

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- Include clear diagrams for requirement and design.
- Include code snippet to explain implementation.
- Upload source code and test program as zip archive.
- 10% of the obtained marks will be awarded as extra points in project evaluation if report submitted in proper IEEE format.

 You will receive a numeric score for the midterm, the final, each of the total homework, and each project submission. Letter grade, which is your class grade, will be obtained by adding the numeric scores and weighing with the percentages given below.

A+= 100-97%	A = 96-93%	A-= 92-90%
B+ = 89-87%	B = 86-83%	B- = 82-80%
C+= 79-77%	C = 76-73%	C-= 72-70%
D+ = 69-67%	D = 66-63%	D- = 62-60%
F = 59-0% Failure		

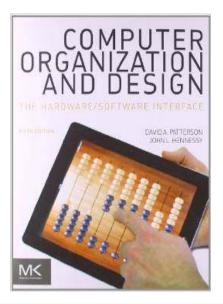
- Fraction in percentage will be converted into nearest integer value.
  - >= 0.5 will be moved to next integer number.
  - < 0.5 will be moved to previous integer number.

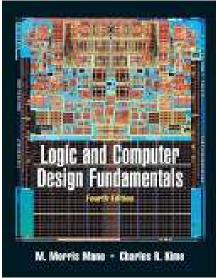
- 72.2% will be converted to 72%
- 72.4% will be converted to 72%
- 72.5% will be converted to 73%
- 72.8% will be converted to 73%

- You must come to class on time! Students entering the classroom late disrupt the lecture and / or the students already in class who may be engaged in lab or discussion.
- If you miss a lecture you are still responsible for any material discussed or assignments given. A large portion of each class will be used for hands-on lab / discussion. All students are expected to participate in class activities. Students who are often absent will find themselves at a disadvantage during the tests.
- **No audio / video recording** or photography in the classroom without prior permission of instructor.
- No personal discussion or cell phone activity during class time. Please set the cell phone on silent/vibrate mode.
- All e-mail communication to the instructor must have the subject line start with [CS-47,01]
- Email to be sent to the instructor's SJSU email ID only.

#### CS47 Books

· Reference books.





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1. Computer Organization and Design | Edition: 5

**Author: David A. Patterson** 

ISBN:9780124077263

Publication Date:10/10/2013 Publisher:Elsevier Science

2. LOGIC & COMPUTER DESIGN FUNDAMENTALS

Author: MANO & KIME ISBN: 9780131989269

Publication Date: 06/15/2007

Publisher: PEARSON

## CS47 Challenges

- It is not an easy subject, it includes
  - Learning assembly programming.
  - Maths / Boolean Algebra
  - Drawing skills for logic schematic
- Practice, practice, ... and practice
  - Assembly programming
  - Schematic / logic diagram drawing
  - Maths and Boolean algebra at least example shown in the class.
  - Exam is all about brain to hand coordination.
- 4x study time rule need to spend 10hr. / week at least outside class hour.

#### **Email Protocol**

- Email protocol to be maintained.
  - Subject line should start with '[CS47,01]'
  - Proper salutation should be present
    - 'hi' or 'hey' is <u>NOT</u> accepted.
    - · No first name basis communication.
    - 'Good morning Mr. Patra' is a better salutation.
    - Email language should be **professional** remember that you are not sending email to your friend.
  - Emails are responded within 24 hour if properly composed.

# Introduction to CS47, Sec01

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