

Introduction to CS47, Sec 01

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Introduction



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<ul style="list-style-type: none">• SJSU Alumni from CMPE• More than 25 years in Electronic Design Automation (EDA) industry, currently working at Siemens DI SW.• Worked for Texas Instruments, NeoMagic, SUN Microsystems, ORALCE, Synopsys, Mentor Graphics.	

"I hear and I forget. I see and I remember. I do and I understand." - Confucius

"Help will always be given at Hogwarts to those who asks for it" - Albus Dumbledore

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"Help will always be given at ~~Hogwarts~~ to those who asks for it" - ~~Albus Dumbledore~~ ^{this class}

Kaushik Patra

Introduction

Logistics



Class Logistics

- Welcome to Computer Systems Study (CS47).
 - Traditional / Flip style in-person class.
 - Please check Canvas course home page for timings.
 - In-person class – may be some exceptional days of online class using zoom.
 - Zoom sessions are **NOT** recorded.
- Office hour @ Zoom once a week.
 - Please check 'Everything you need to know' page in canvas for details.
 - Don't have Canvas access? Email me 😊



Class Logistics

- Most of the correspondence will be done using **canvas**.
 - <http://www.sjsu.edu/at/ec/canvas/>
- Class surveys and feedback are gathered through Qualtrics.
 - <https://sjsu.qualtrics.com>



Class Logistics

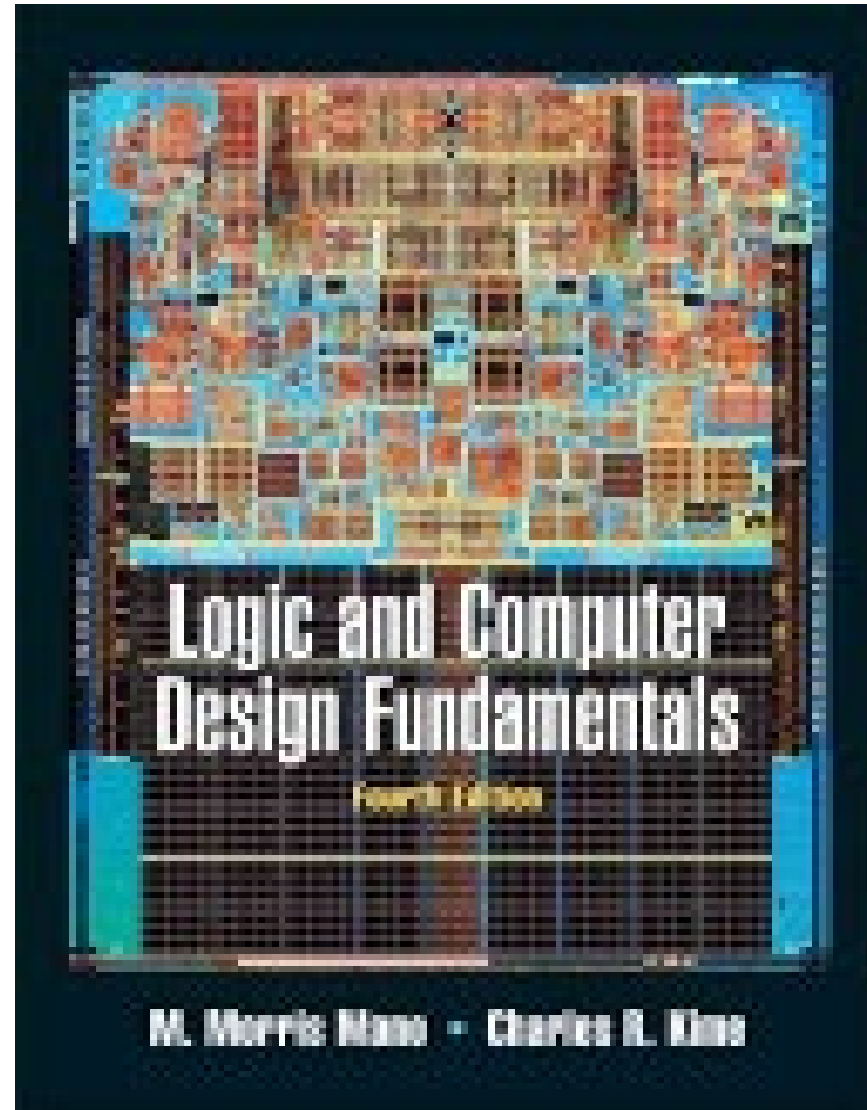
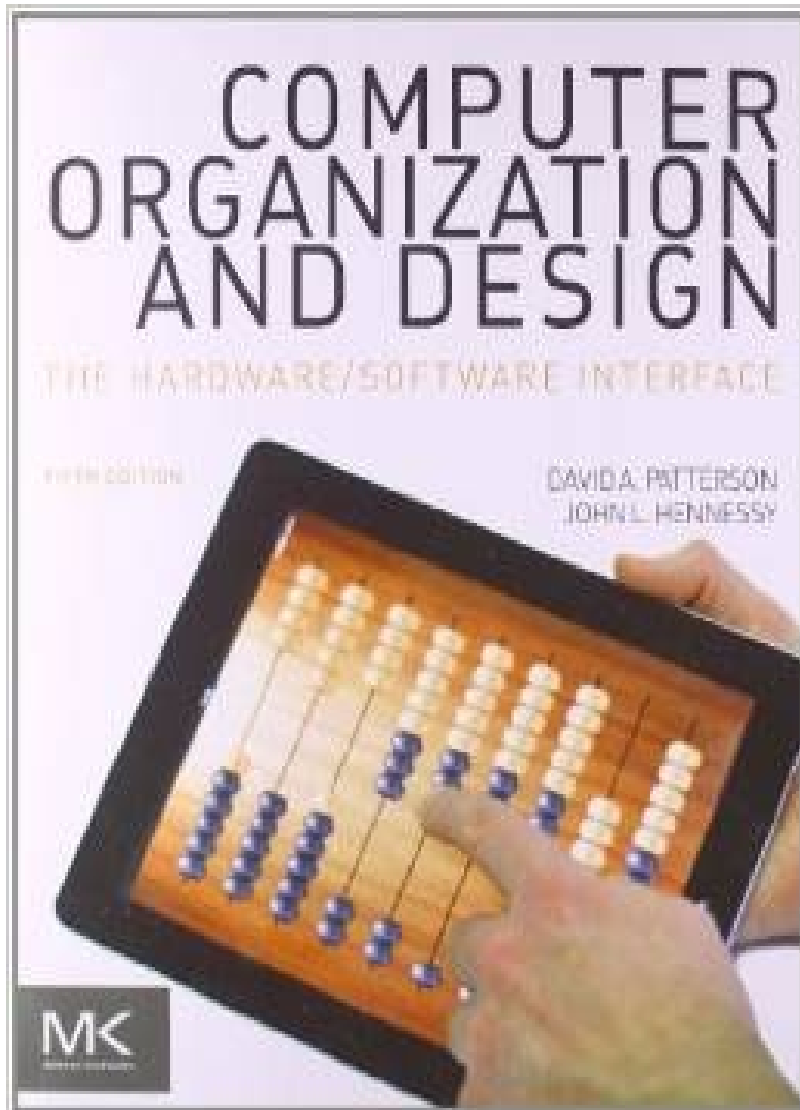
- Course prerequisite
 - CS/MATH 42/42X and CS 46B/CS49J equivalent with C- or better
 - It is assumed that student has prior knowledge of high-level programming and discrete mathematics (especially Boolean algebra – MATH042).
- If any student **misses first meeting** that student will be **dropped** from the class.
 - It is highly encouraged to attend to class meetings for rest of the semesters.
 - Live discussions will help you to clear conception.
 - Pop quizzes will help in grade through bonus points.

Class Logistics

- **Lecture Notes / Videos are in Canvas – review it before coming to class.**
 - There will be in-class pop quizzes (check Canvas page for more information) which will contribute to extra points as bonus.
- Student's canvas, class & group activities (if any) will be monitored, and bonus points will be added based on their performance.
- Bonus points will be added to overall score (5% extra comes from this).
- Students also can choose to replace certain percentage of their midterm & final exam with equivalent bonus points (check Canvas page for more information).

CS47 Books

- Reference books.





Class Logistics

- There will be **6 quizzes, 8 programming assignments and 1 projects.**
 - Programming assignment carries **20%** towards final score.
 - Project carries **20%** towards final score.
 - Quiz carries **30%** towards final score.
- There will be one midterm and final exam.
 - Midterm carries **10%** towards final score.
 - Final carries **20%** towards final score

Class Logistics

- 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.

Logistics

Protocols

Class Protocols

- 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.
- It is individual **student responsibility** to **check validity** of their homework, assignment, project, submission (format error, blank files, corrupted files, and many more such) and re-submit within deadline if needed. Once the grading is started there will be no consideration for resubmit. **If the submission found to have any logistics issue at grading time (format error, blank files, corrupted files, and many more such) it will be evaluated as 0.**

Email Protocol

- Email protocol to be maintained.
 - Subject line should start with '**[<Course>, <Section>]**'
 - Example : [CS47,01] <subject line>
 - Proper salutation should be present
 - 'hi' or 'hey' is **NOT** 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.

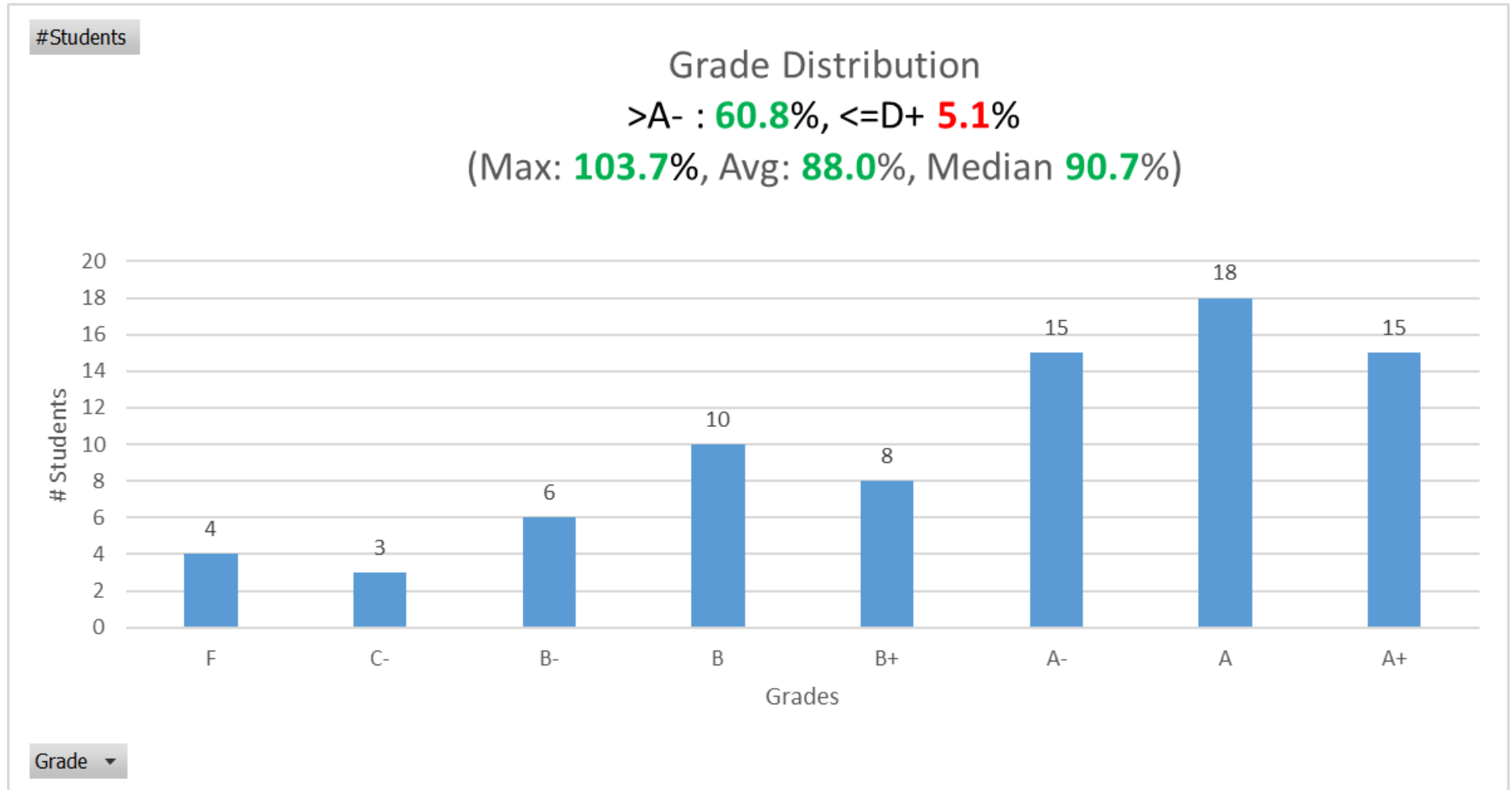
Protocols

Challenges

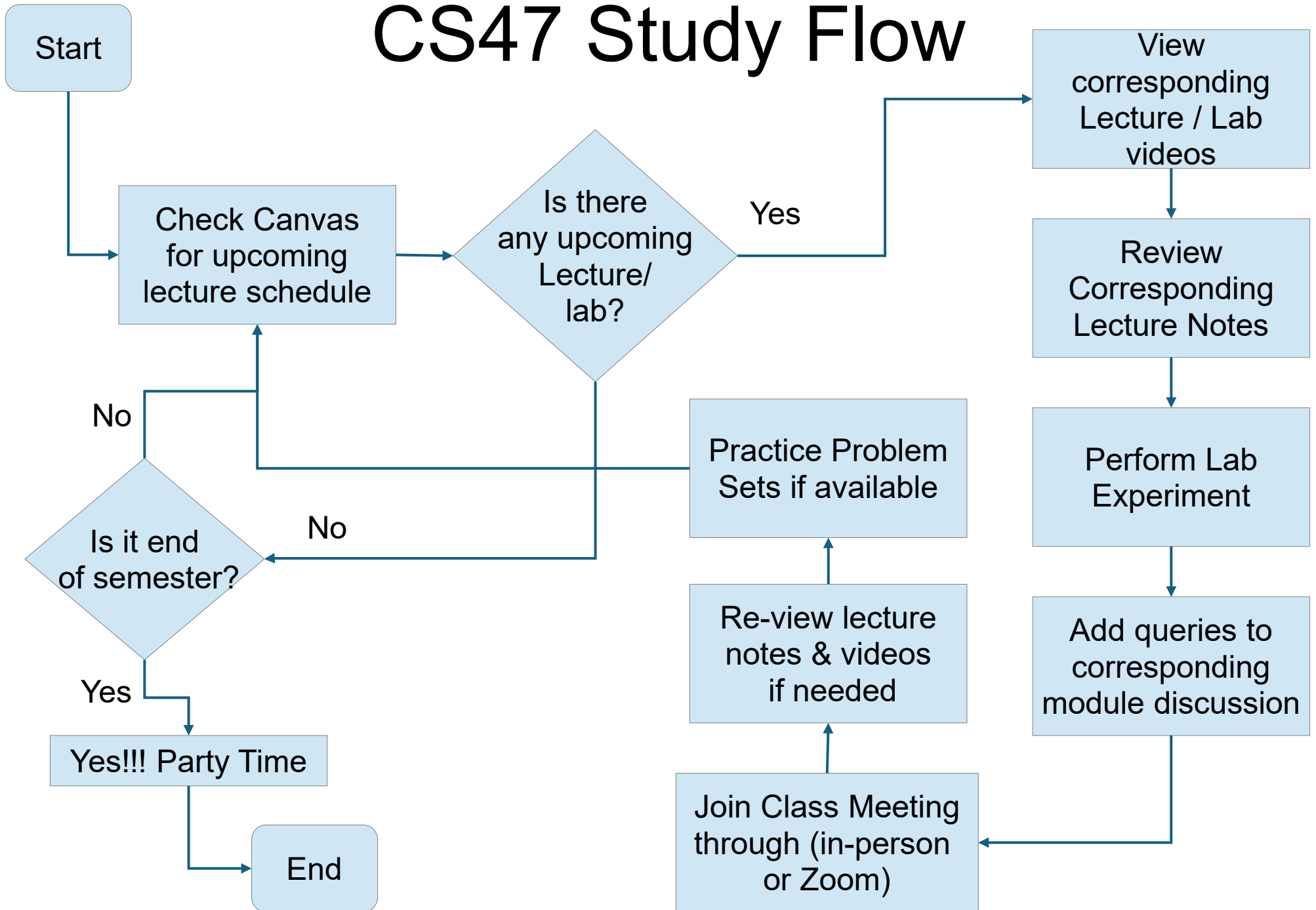
CS47 Challenges

- It is high paced and not an easy subject, it includes
 - Learning assembly programming.
 - Refreshing Boolean Algebra from MATH-042
 - Drawing skills for logic schematic
- Practice, practice, ... and practice
 - Assembly programming
 - Schematic / logic diagram drawing
 - Math and Boolean algebra – at least example shown in the class.
 - Exam is all about brain to hand coordination – exams are hard, try getting 100% of homework, programming assignments and project.
- 4x study time rule – need to spend 10hr. / week at least outside class hour. Come to class prepared.
- Watch lecture video and study lecture notes before attending class.

Typical grade distribution



CS47 Study Flow



Challenges

For Unregistered / Late Registered Students

- **Students late registered / waiting for add code must send email tonight after the class to kaushik.patra@sjsu.edu with the following information.**
 - ***Subject*** should be '[CS47,01] Late Registration Request
 - **Email Body**
 - Name
 - Student ID
 - SJSU registered email
- An online survey form will be sent and fill it up and send back immediately.
- Till Feb 02, 2025, student can register without add code.

Introduction to CS47, Sec 02

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