



# COMPUTER ARCHITECTURE AND ORGANIZATION CECS 341

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# LECTURE OUTLINE

- Course logistics
- Intro: Computer Abstractions and Technology  
(separate slides)



# COURSE LOGISTICS (1/4)

- We will use BeachBoard to manage course
  - Announcements, course content, discussions
  - Mainly slides, but we'll use the blackboard
  - Email your questions to the instructor
    - [jelena.trajkovic@csulb.edu](mailto:jelena.trajkovic@csulb.edu)
    - Please put “CECS 341” in the subject!
    - Response within the 48h
- Office hours:
  - Wednesdays 1:30 pm- 2:30 pm @ ECS-539
  - Or by appointment



# COURSE LOGISTICS (2/4)

## ○ Course Materials

- Textbook: ZyBook
  - Sign in or create an account at [learn.zybooks.com](https://learn.zybooks.com)
  - Enter zyBook code: CSULBCECS341TrajkovicSpring2029
  - Subscribe
- Development Environments:
- EDAPlayground.com: web-based platform for the design, simulation, and analysis of digital systems related to concepts presented in lecture.
  - No installation necessary, just login and code.
- IF needed:
  - MARS MIPS simulator: to be downloaded from BeachBoard



# COURSE LOGISTICS (3/4)

## ○ Labs:

- Assignments are done **individually**
  - Assignments and due dates to be posted on the BeachBoard
    - Must demo the lab to the instructor on the specified date
    - Submit copy or report and all design files in “.txt” format to BeachBoard
  - Go green! No printed report, but have paper and pen
- Budget your time:
  - Dedicate additional time outside lab hours to develop the solutions for your labs and test them out
- Lab time used to:
  - Solve problems – workshop style!
  - Prep for the new lab assignment, and
  - **Take demos**
- “LabReportTemplate” is on BeachBoard, must include:
  - *“I certify that this submission is my original work”,*
  - *Your signature (can be e-signature)*



# COURSE LOGISTICS (4/4)

## ○ Homework Assignments

- Assignments are done **individually**
- E - assignments posted on **ZyBook**, with the due dates
- Submitting the E-assignment in ZyBook is **equivalent** to *signing* the following sentence: ***“I certify that this submission is my original work”!***

## ○ **No credit** for late submission of HW assignment or Lab report ☹

- If sufficient time you might be able to get feedback (and up to 50% of demo only) for your late Lab demo

## ○ **Read the syllabus and follow the announcements**



# GRADING SCHEME

- Laboratory                      30%
- Assignments                    20%
- Midterm Exam                20%
- Final Exam                    30%
- Attendance (3 unexcused) -5%
  
- Tentative dates: midterm 3/11
  
- Distribution of letter grades using grading curve
- Note:
  - No make-up midterm exam
  - If absent on midterm, the final exam counts for 55%



# LAST, BUT NOT LEAST...

- Issue?
  - Contact the instructor **in timely manner**
    - Within 1 week of the issue
- 4-week eval, in-class diagnostic, in-class examples...
- Academic Integrity
  - Lab report includes: ***“I certify that this submission is my original work”*** and your **signature**.
  - Min penalty: no credit for the work concerned and one grade lower letter grade
- Class discipline and participation
  - Devices, chatting, tardiness → respect
- **How do WE want to define this class and its policies?**





## GOAL OF THIS COURSE

- Learn principals on which the processors are designed and details of its implementation
  - From data representation, instructions, machine language, to processor (control, datapath, storage)
- Touch upon hardware description language
  - Will be used to design, simulate and analyze components and parts of the processor
- **Have fun!**

