

Digital Systems Fundamentals

The background of the slide is a deep teal color. It features a complex digital theme with white and light blue circuit traces, binary code (0s and 1s), and concentric circles emanating from the center. A hand in a blue striped shirt sleeve is shown from the right, with the index finger pointing towards the center of the image, where a small, glowing square icon is located.

The extra grade approach – Pedro Julián

Spring 2019, JHU

Organization

- Context
 - Freshmen class
 - EE, CS, Biomed, Mech-E, Peabody
- Hands-on class
 - Mon-Wed: regular lecture
 - Fri: in-classroom lab



Organization

- Grading
 - Midterm 20%
 - Final project 40%
 - Labs & HW 40%



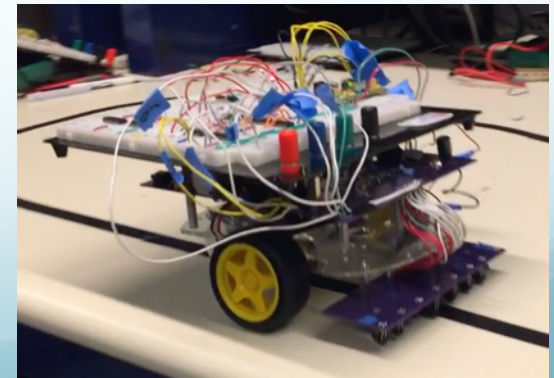
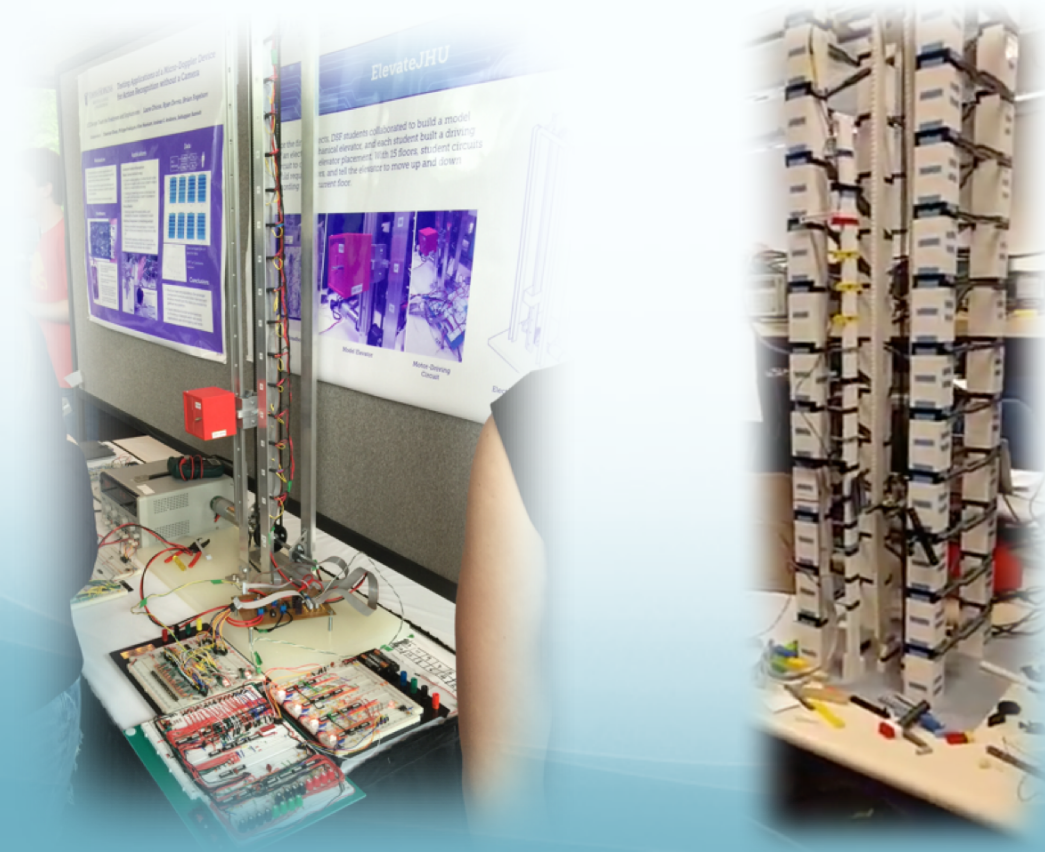
Organization

- Grading
 - Midterm 20%
 - Final project 40%
 - Labs & HW 40%
- Extra grade: 20% (flexible)
 - They need to help with special projects



Extra grade

- Two objectives:
 - 1) learn more;
 - 2) better grade
- One 1-hour meeting per week.
 - They might put more hours

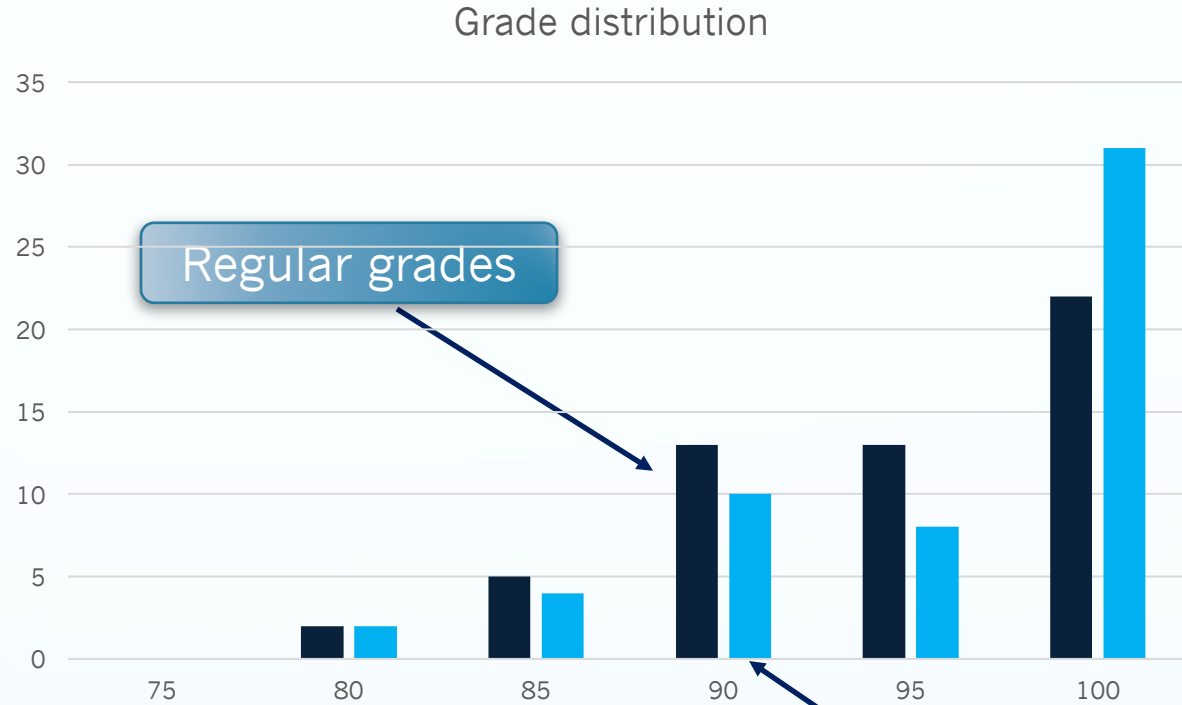


GRADING

- main message: if you work hard you'll get a good grade

- The best aspect of the course is the opportunity for learning. The class removes the focus from grades and allows students to work with a low-pressure environment.
- Being able to build the circuits and see the ideas that were discussed in class.
- i learned a lot
- Getting hands-on experience with building circuits
- Pedro is without a doubt one of the best professors I have had. He is such a great guy who loves his job and truly cares about your understanding of the course. He is very likable and makes himself very approachable. The general support from both Pedro and the TAs is amazing. He understands that students are too focused on grades, and so he makes it very achievable to obtain a good score in the course so that you are more concerned with the actual learning aspect. I distinctly remember him saying in the first lecture, that if you promise to work hard, you will get a good grade. That aside, I most enjoyed the hands-on projects of the course. I would say it is 70% hands on, and 30% theory.

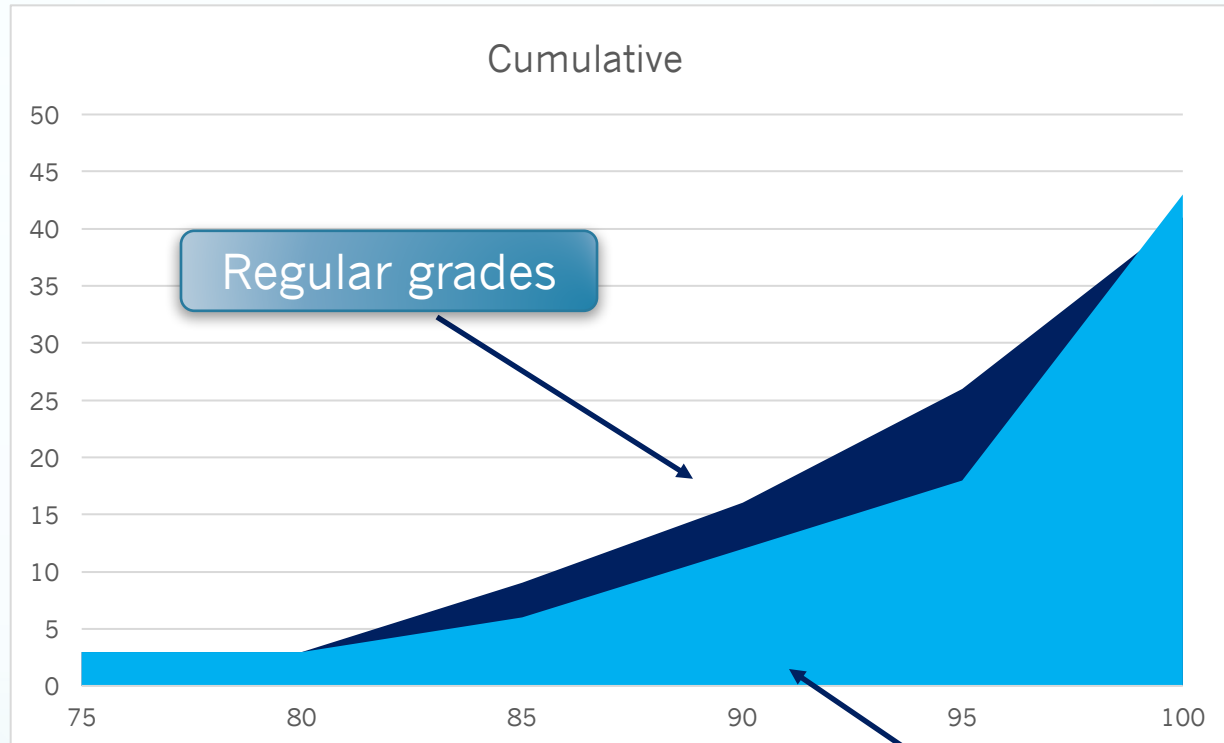
Grade distribution (SP17)



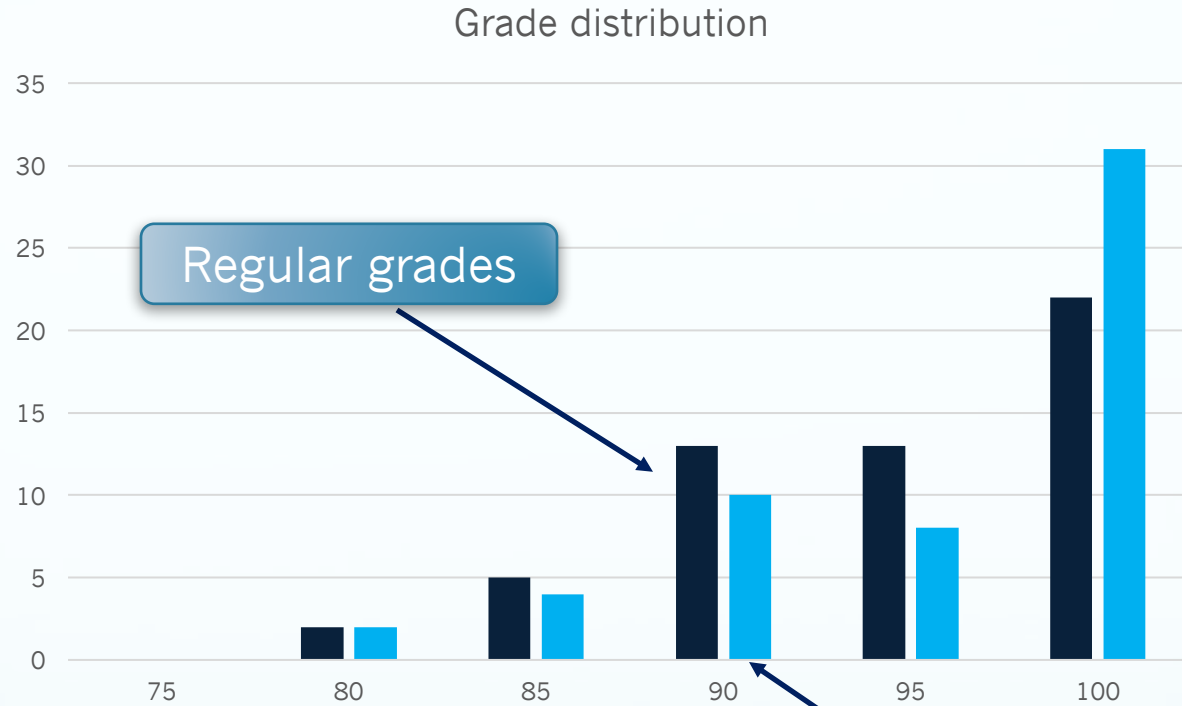
+ extra grade

<i>Bin</i>	<i>Reg</i>	w/Extra	%
75	3	3	0.00%
80	0	0	0.00%
85	6	3	50.00%
90	7	6	14.29%
95	10	6	40.00%
100	15	25	-66.67%

Grade distribution (SP17)



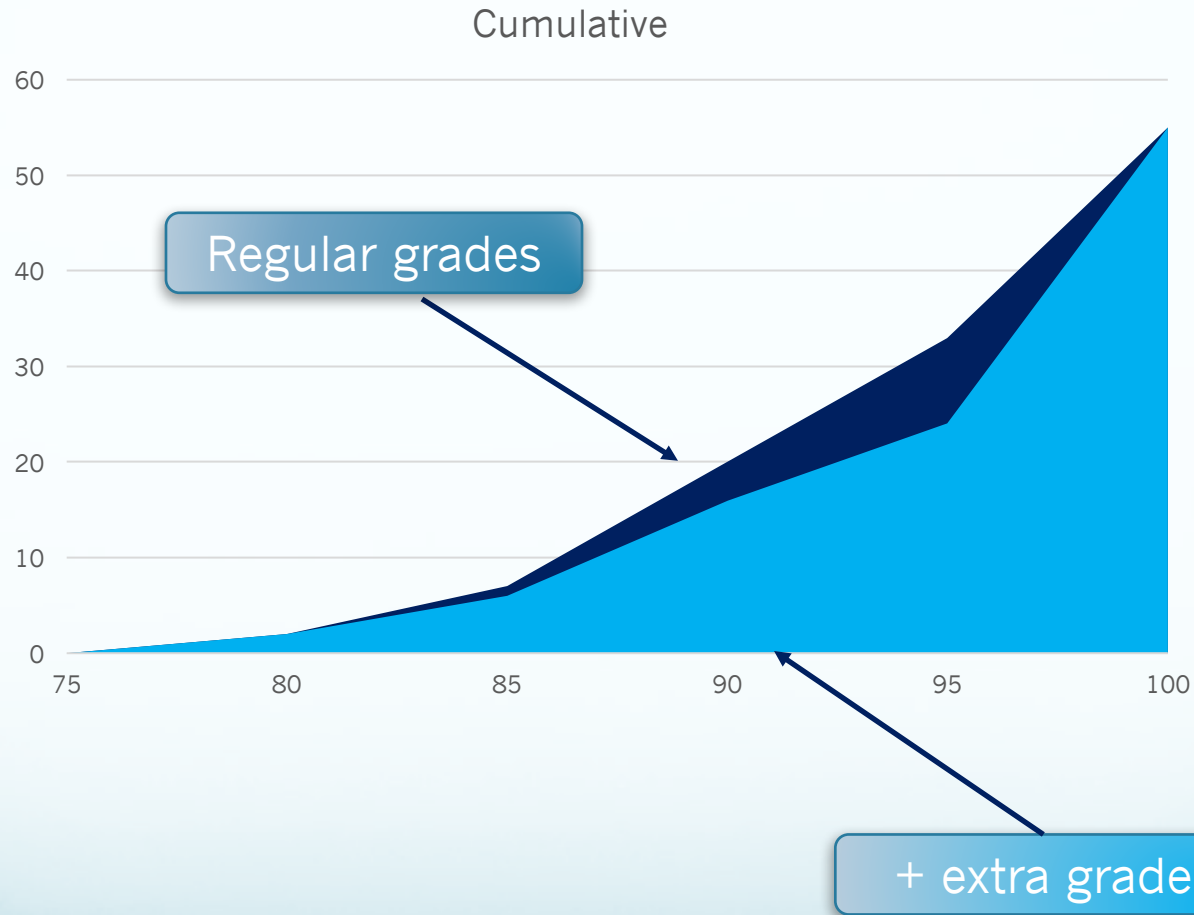
Grade distribution (SP18)



+ extra grade

Bin	Reg.	w/Extra G.		%
75	0	0		0.0%
80	2	2		0.0%
85	5	4		1.8%
90	13	10		5.5%
95	13	8		9.1%
100	22	31		-16.4%

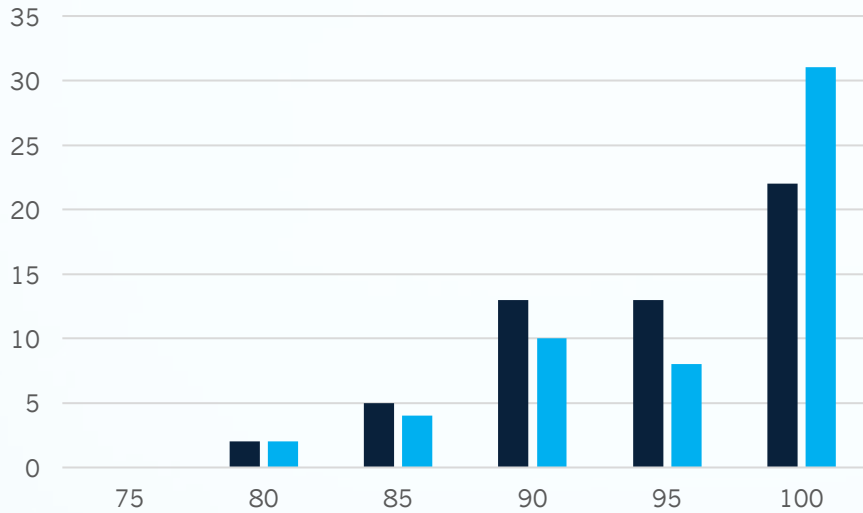
Grade distribution (SP18)



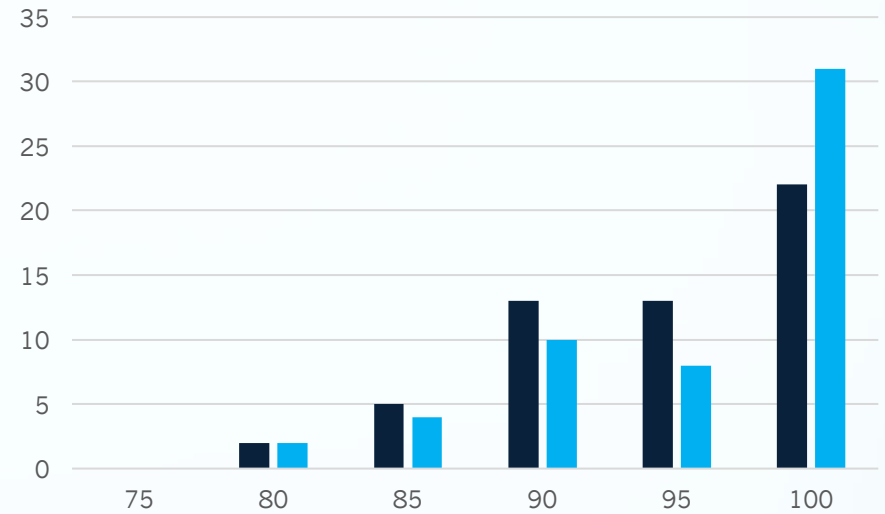
SP 2019: 30 students enrolled

2017 Vs. 2018

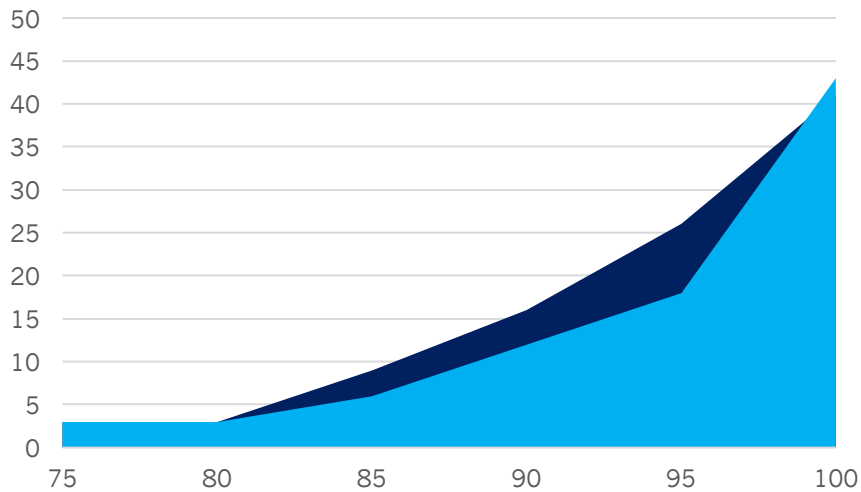
Grade distribution



Grade distribution



Cumulative



Cumulative

