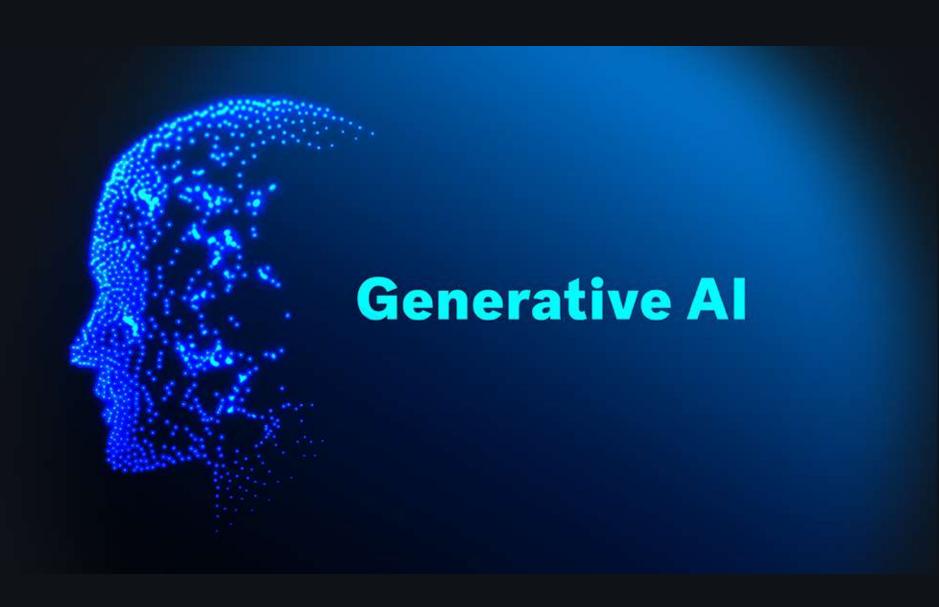
# ECE 15

```
#include <stdio.h>
int main() {
     char word1[10] = "energy";
     char word2[10];
     int i=0, j=0;
     while (word1[i] != '\0') {
         if (word1[i] != 'e')
             word2[j++] = word1[i];
     i++;
     word2[j] = '\0';
     printf("%s \n",word2);
```



"Everyone should learn how to code, it teaches you how to think."







Learning the language to talk to a computer

Vocabulary

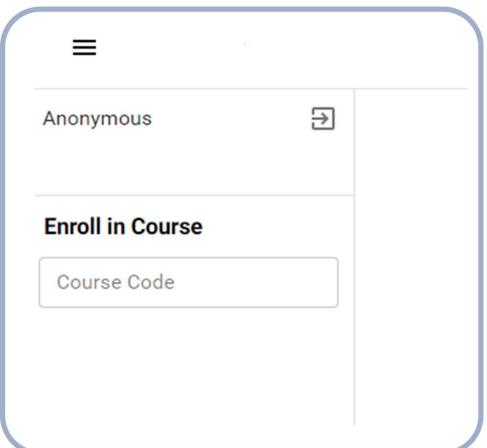
Syntax: C language

Grammar

Thinking as a programmer

## webclicker.web.app





**HBOPYX** 

What describes you best (before you started with this class)?

- [A] Computers are not my thing at all.
- [B] I use computers to go online, but that is about it.
- [C] I don't really know programming, but I know my way around a computer.
- [D] I have done some programming and feel pretty comfortable with things computer related.
- [E] I'm an expert programmer and a total computer wiz.

We do not expect any prior knowledge

The course requires dedication and practice start early, start often

Absolute grading – you are not competing

The only way to learn to code is by actively doing it ...

Active learning

Learn syntax before lecture

Practice during lecture

Programming assignments



## Our Team



Curt



Haochen



Giovanni



Rafaella



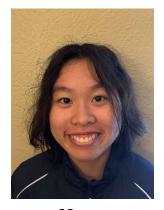
Mandy



Josh



Vivian



Tiffany



Sarayu



Andrew



Anthony



Henry

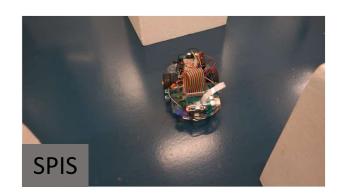


Alain

## **Curt Schurgers**

Teaching Professor, ECE Department

Hands-on experiences and teaching





**Engineers for Exploration** 

e4e.ucsd.edu



Traveling, backpacking and exploring



## Logistics – Course Components

### Reading assignments

- Custom chapters, available on Canvas
- Reading quizzes before each lecture
- Optional textbook: "Programming in C", 4th Ed., Stephen G. Kochan

#### Lectures

Active learning: Webclicker

#### Discussion

Single section: CENTR 212

#### Exams

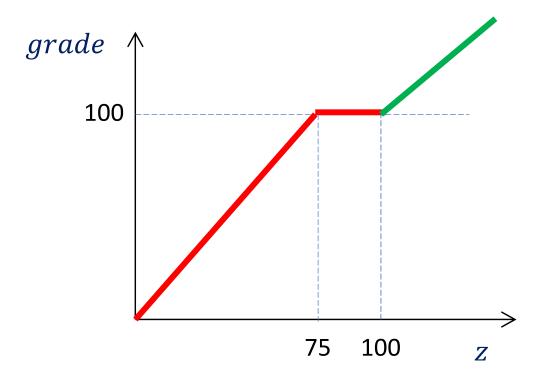
- Two midterms
- Final

## Logistics – Course Components

- Programming assignments
  - Main submission: x Fridays 7pm (with a 5h grace period)
  - Resubmission: Y Tuesdays 7pm (with a 5h grace period)

$$z = \max\left[x, \frac{x+y}{2}\right]$$

If 
$$z \le 75$$
 
$$grade = z * 1.33$$
If  $75 \le z \le 100$  
$$grade = 100$$
If  $100 \le z$  
$$grade = z$$



# Logistics - Grading

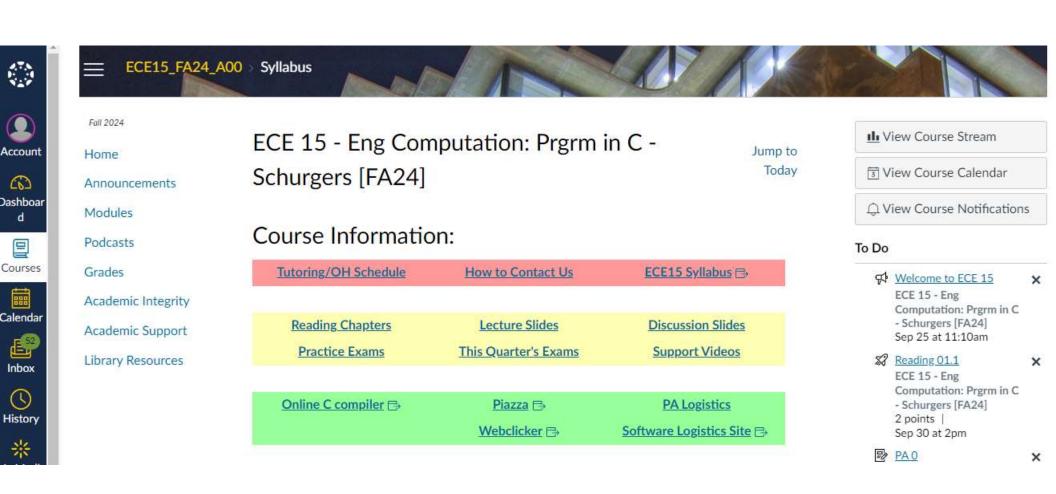
12%	programming assignments	Class participation is measured with Webclicker.		
1%	max [final, class participation]	You get credit for a lecture if		
1%	max [final, reading quizzes]	you answer at least 75% of the questions in that lecture.		
18%	max [ final, midterm1 ]	You can miss up to 6 lectures		
18%	max [ final, midterm2 ]	without penalty.		
50%	final	There are no make-up exams		

• There is no curve in this class

80 – 85%	A-	85 – 95% A	95 – 100% A+
65 – 70%	B-	70 – 75% B	75 – 80% B+
50 – 55%	C-	55 – 60% C	60 – 65% C+
0 - 40%	F	40 – 50% D	

If your score in the final exam is below 35%, you can at most get a D. If your score in the final exam is below 25%, you will get an F.

## Logistics – Course Website on Canvas



# Logistics – Course Website on Canvas



Fall 2023

Home

Modules

**Podcasts** 

Grades

Academic Integrity

Academic Support

Library Resources

· Getting Ready Complete All Items 0 Getting Started Prerequisites: Getting Ready Complete All Items 0 Academic Integrity Agreement Complete All Items Prerequisites: Getting Ready · Programming Assignment Logistics Complete All Items Prerequisites: Getting Started · Reading and Reading Quizzes Prerequisites: Getting Started, Academic Integrity Agreement Prerequisites: Getting Started, Programming Assignment Logistics, Programming Assignments Academic Integrity Agreement

# Logistics – Asking for Help

- Piazza: Do not post your code (make it a private message)
- Tutoring hours in the computer lab (JH 4307)

Time	Monday	Tuesday	Wednesday	Thursday	Friday	
8:30 - 9:00				T		
9:00 - 9:30		T				
9:30 - 10:00						80. W.
10:00 - 10:30	Tiffany				Henry, Anthony	Lecture
10:30 - 11:00	Tiffany, Anthony				Henry, Anthony	
11:00 - 11:30	Tiffany, Anthony	Rafaella		Rafaella	Henry, Anthony	Discussion
11:30 - 12:00		Rafaella		Rafaella	Henry	
12:00 - 12:30	Sarayu	Rafaella	Vivian	Rafaella	Henry	Lab tutoring hours
12:30 - 13:00	Sarayu, Anthony	Rafaella	Vivian	Rafaella	Henry	
13:00 - 13:30	Sarayu, Anthony	Haochen	Anthony, Vivian	Haochen	Alain, Anthony	Curt's office hours
13:30 - 14:00	Sarayu, Anthony	Haochen	Anthony, Vivian	Haochen	Alain, Anthony	
14:00 - 14:30	Lecture	Joshua, Haochen	Lecture	Joshua, Haochen	Lecture	
14:30 - 15:00		Joshua, Haochen	0	Joshua, Haochen		
15:00 - 15:30	OH Curt	Joshua, Haochen	Alain, Tiffany	Joshua, Haochen		
15:30 - 16:00		Joshua	Alain, Tiffany	Joshua, Andrew		
16:00 - 16:30	Discussion	Mandy, Giovanni	Alain, Tiffany	Mandy, Giovanni, Andrev	Mandy, Giovanni, Alain, /	
16:30 - 17:00		Mandy, Giovanni	Alain	Mandy, Giovanni, Andrev	Mandy, Giovanni, Alain, A	
17:00 - 17:30	Anthony	Giovanni, Henry, Sarayu	Alain	Anthony, Andrew	Vivian, Mandy, Giovanni,	
17:30 - 18:00	Anthony	Giovanni, Henry, Sarayu		Anthony	Vivian, Mandy, Giovanni,	
18:00 - 18:30	Anthony	Giovanni, Henry, Sarayu			Vivian, Giovanni, Alain, A	
18:30 - 19:00	Anthony	Henry, Sarayu			Vivian, Giovanni, Andrew	

## Academic Integrity

- Do not share your code
- Do not copy code from others
- Do not claim work to be yours (even implicitly) when it is not
- Provide help by explaining principles and concepts
- Do not post your code online

Do not self-plagiarize (i.e., reuse your own code). You can potentially transfer some the PA grades (see form on Canvas).

The expectations are different in a course compared to jobs/internships ...

## Week 1 – PAO

- Log into your class account
  - Need to use this account as it has the needed software
- Access the computing resources
  - Use the Jacobs Hall computer lab, room 4307
  - Using remote desktop or ssh
- Submit a simple assignment (20 points)
  - Download starter code, write simple program, submit code

Deadline: Friday of week 1

Resubmit: Friday of week 3 (for full credit)

Come to discussion and office/tutoring hours Tutoring will start at 4pm today!