

# AGENDA

**CLASS DESCRIPTION** 

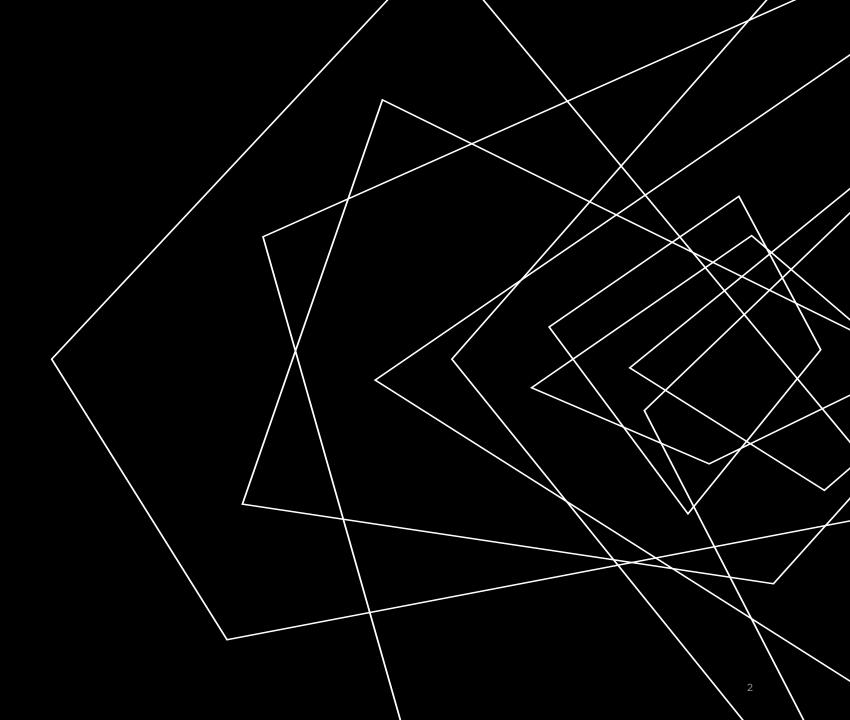
**CLASS MATERIAL** 

ASSESSMENT OVERVIEW

COURSE OUTLINE

ABOUT THE TEACHER

**CONTACT INFO** 



```
void countLettersViaGL
eel();
key = new Scanner(System
em.out.println("Opening GU
ner fileScanner = new Scan
watch st = new Stopwatch();
tart();
yList<String> Letters = coun
stop();
tem out println("time to count
tem out print("Enter number of
numLettersToShow = Integer.pars
wLetters(Letters, numLettersToSh
eScanner close();
stem out print("Try another count?
le(key nextLine() toLowerCase() cha
lose();
 NotFoundException e) {
  out.println("Error reading the data
      tinct letters in a file using an
      rraylist<String> countLettersWithA
```

## CLASS DESCRIPTION

Students will learn the fundamental concepts of computer science as well as extensive knowledge and practice using the programming language Java.

Students will indulge in concepts such as data types, variables, looping, methods, object-oriented programming, as well as extra knowledge such as machine learning.

This class is beginner friendly, meaning you don't need experience or knowledge in programming to take the course. The course is recommended for those in middle school or high school.

## CLASS MATERIAL

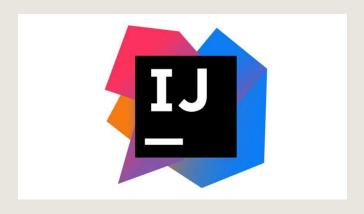
### A laptop device (Mac or Windows)

\*Note: I will be using a Windows device during instruction



#### IntelliJ Idea

Free to use Java compiler, used for classwork and homework



## ASSESSMENT OVERVIEW

- Homework assignments every week to help encourage proficiency and practice
- Students should be prepared to complete their homework assignment for next class
- Multiple projects per year in which students will have class time to complete
  - Project #1
  - Project #2
  - Final Project



Week 10: While loops and errors

```
public class HelloWorld main() method

public static void main(String[] args)

{

// Prints "Hello, World" in the terminal window.
System.out.print("Hello, World");
}

statements

body
```

Week 11: Project #1

Week 12-13: Arrays

Week 14-15: Methods

Week 16-17: Project #2

Week 18: Introduction to Object Oriented

Programming

Week 19-20: Classes

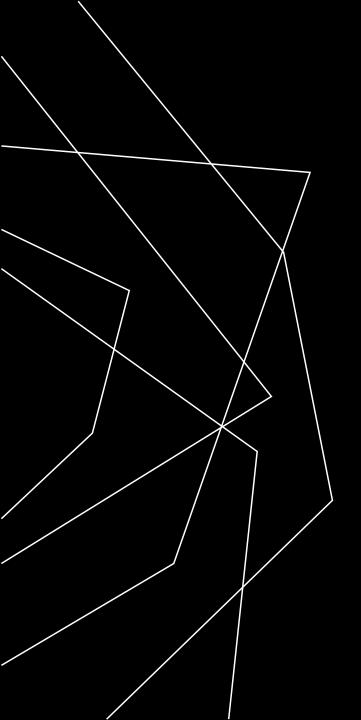
Week 21: Debugging

Week 22: Introduction to Machine Learning

Week 23 - End of Year: Final Project

## ABOUT THE TEACHER

- Fluent in three programming languages: Python, Java, and C++
- Taken college level computer science courses at Siena
- Self-taught machine learning
- Currently in USACO Silver
- Experience creating projects through programming
  - Created multiple websites
  - Experience with data processing
  - Created a Discord bot



# THANK YOU

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Information given in the presentation

is in the handout