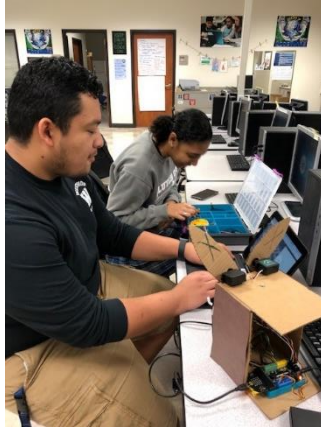


# COMPUTER SCIENCE

After successfully completing Fundamentals of Computer Science course, students interested in Computer Science can learn one or more programming languages. Westside offers block-based programming languages like Scratch and Snap! and text-based language Python in Computer Science I course. In Computer Science II, students are introduced to JAVA, the more complex language, and go further in depth with object oriented programming. In AP Computer Science A students will continue in JAVA to earn college credit with the AP exam. In addition, students can take AP Computer Science Principles, which gives an indepth study of the science of computer science.

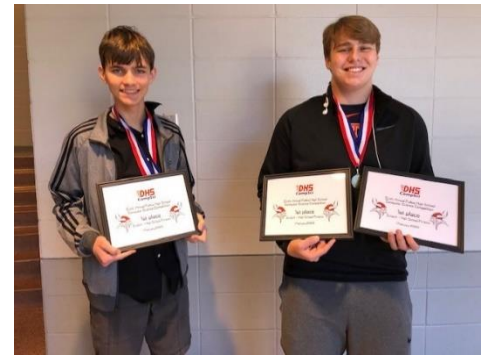
## COURSE SEQUENCE



9 <sup>th</sup>	Fundamentals of Computer Science
10 <sup>th</sup>	Computer Science
	Computer Science I PAP
11 <sup>th</sup>	Computer Science II
	Computer Science II PAP
	AP Computer Science Principles
12 <sup>th</sup>	Practicum in Information Technology
	AP Computer Science A

```

2 # There are five different functions in this script.
3
4 from earsketch import *
5
6 init()
7 setTempo(120)
8
9 # Places three drum loops one after another
10 insertMedia(RD_EDM_MAINBEAT_1, 1, 1)
11 insertMedia(RD_EDM_MAINBEAT_1, 2, 3)
12 insertMedia(RD_EDM_MAINBEAT_1, 3, 5)
13
14 # Set a different effect on each drum loop
15 setEffect(1, DISTORTION, DISTO_GAIN, 25)
16 setEffect(2, VOLUME, GAIN, -12)
17 setEffect(3, PAN, LEFT_RIGHT, -100)
    
```



College credit opportunities	AP Computer Science AP Computer Science Principles
Competitions	-UIL Competitions within HISD & with other districts, State - Rice University STEM Engagement Spring Showcase -Hewlett Packer Code Wars
Internships	Offered through the Practicum Partners: Houston Methodist IT Department Eagle's Trace
Field Experiences	Amazon Future Engineers Partner Amazon Fulfillment Centers
Industry Needs/Trends/Vacancy Rate	2 million job vacancies in computer programming area - Expectant job growth (19%) to outpace qualified students entering the workforce. Faster than the average for all occupations.
Typical College Majors	Computer Science Computer Engineering Computer Programming Software Developer
Typical Occupations	Software Development App Development Web Design IT Manager
Industry Certifications earned in HS	Microsoft Office Specialist Certification– Principles of CP - Microsoft Word - Microsoft Excel - Microsoft PowerPoint Microsoft Technology Associate Certification – CP 2 Oracle Certification – CP 2

### WESTSIDE HS CODING CLUB

Eat
 Sleep
 Code

// Participate in Code Wars and UIL competitions  
 // Sharpen your Java programming knowledge  
 \*\*\*Basic Java knowledge required\*\*\*

Tuesdays

setTime("Lunch", "12:25 - 1:15");

Contact  
 @margretw@beta.houstonisd.org  
 713-815-4218

S114

//Mrs. K. Latt's Team