

Coding - Middle School/High School
Syllabus - 2021/2022

INSTRUCTOR

Chris Anderson

COURSE DESCRIPTION

In this weekly course, students will learn the fundamentals of computer programming. Each student chooses their own path into computer programming, based on interests and skills. Basic block coding, Javascript, Java, HTML, and Python, are the languages available for students to use.

Students will write original code, edit, and execute programs on Android applications, Arduino chipsets, Microbit modules, and online environments.

We will complete lessons in Python online, using this website:
https://www.learnpython.org/en/Hello%2C_World%21

QUARKS

Students are encouraged to earn an average of **5 quarks/week**. **One trimester of elective credit** is granted after a student earns **50 quarks**.

Assessments

All activities are graded as pass/no pass.

Activity Completed	Quarks Earned
Create a block program on a robot	1 quarks/program
Write an original block program	1 quarks/program
Write a working program in an approved language	1-5 quarks/program, depending on breadth of the

	program's code
Complete an online lesson series in Java, Python, etc.	1 quarks/lesson

STANDARDS

The state of Oregon does not have standards in place of instruction of computer science. This course is considered a STEM extension. More information may be found with the Oregon Department of Education.

<https://www.oregon.gov/ode/educator-resources/standards/STEM/Pages/default.aspx>