

Purpose

This document summarizes the process AUS Staff and Students will follow to ensure students at Academy for Urban Scholars High School are equipped with the skills to be prepared for careers in the 21st century, decrease the digital divide in the urban community, and provide an opportunity for students to understand the principles and practices of computer science.

Ownership and Accountability

This process is owned by the School Director, Assistant Director, Curriculum & Instructor Director, Development Director and Instructors. The School Director is responsible for ensuring the process is followed, maintained and updated as appropriate. The effective date of this document is located in the footer and will be changed when the document is changed. The Director of Curriculum & Instruction will perform periodic audits of the class success, maintain communication with Amazon and set meetings as requested. Instructors will follow the course outline, keep track of attendance, provide feedback to staff and students and keep gradebook up to date.

Background

"Amazon Future Engineer (AFE) increases access and affordability to Computer Science (CS) education for students K-16. With four key components of K-8 inspiration, high school CS courses, college scholarships, and professional internships, AFE creates opportunities in all stages of a student's journey from learning CS to starting their first job" "Amazon and Edhesive are partnering to address the gap in access to CS education in high school by sponsoring teachers and administrators who demonstrate financial need and are committed to bringing CS to their schools."

[file:///C:/Users/Kristen%20Muenster/Downloads/AFE-Recruitment-PDF-Single-Page%20\(1\).pdf](file:///C:/Users/Kristen%20Muenster/Downloads/AFE-Recruitment-PDF-Single-Page%20(1).pdf)

Process Summary

The following process will ensure that students are invited to participate in the Amazon Future Engineer Program:

1. All staff will be knowledgeable in Amazon Future Engineer Program so they can communicate to students and parents
2. Amazon Future Engineer poster and information sheets will be placed throughout the school

3. Students may enroll in the class by completing an interest sheet and/or staff selection. Academic Affairs will notify parents via phone and letter sent through the mail
4. Academic Affairs will ensure the class is on the student schedule
5. Student(s) will participate in the class with minimal absence
6. Student(s) will create Amazon log in accounts to create modules
7. Instructors will keep daily attendance and provide feedback to students, teachers and engagement coaches. Instructors are responsible to make phone calls to students if they are not coming to class, falling behind, and for positive feedback. If they are unsuccessful, instructors are to reach out to the students Engagement Coach for assistance
8. If a student wants to withdraw from a class- the student, instructor, Engagement Coach and Academic Affairs must sit down and discuss why and notify parents. If a valid reason is determined a withdraw letter will be sent home

Process Documentation

Instructors will keep attendance through QuickBase. Grades/progress can be pulled anytime using the report function within the Amazon portal. Both will be audited weekly. Information must be sent to Curriculum & Instruction Director by end of day on Fridays. Information will be reflected in bi-weekly report to management.

Program Objectives

Introduction to Computer Science:	Unit 6: For Loops
Unit 1: Beginning in Computer Science	Unit 7: Text and String Processing
Unit 2: Number Calculations and Data	Unit 8: Functions
Unit 3: Making Decisions	Unit 9: Arrays
Unit 4: Repetition and Loops	Unit 10: 2D Arrays
Unit 5: Graphics	Unit 11: Internet

Advanced Placement Computer Science A

Unit 1: Output in Java Unit 6: Numeric Casts
Unit 2: Escape Characters Unit 7: Modular Division
Unit 3: User Input and Variables Unit 8: String and Number Output
Unit 4: Data Types Unit 9: Math Functions
Unit 5: Number Calculations Unit 10: Round-off Error

Advanced Placement Computer Science Principles

Unit 1: Computational Thinking
Unit 2: Programming
Unit 3: Data Representation
Unit 4: Digital Media Processing
Unit 5: Big Data
Unit 6: Innovative Technologies

all course syllabi available upon request

Credit Submission

At the completion of the program, the instructor is to complete a Credit Submission sheet and turn it into the Curriculum & Instructor Director. Curriculum & Instructor Director will arrange a meeting with necessary Teacher of Record(s) to review course work and sign off on the credit. Once all parties agree and sign Credit Submission Form, Curriculum and Instruction Director will turn it into Academic Affairs.

The grade(s) will be awarded within 48hrs of completion.

Students who successfully complete the course will be awarded the following credit:

Course	EMIS Code	Credit Amount	HQT (Y/N)	Teacher of Record	Fulfill Graduation Requirement
Algebra II	110302	1	Y	Math Teacher	Yes
Modeling & Quantitative Reasoning	111350	1	Y	Math Teacher	Yes
Other Advanced Science	139998	1	Y	Science Teacher	Yes
Computer Programming and Software Development	031700	1	N	Instructor- with a valid substitute, or other Ohio teaching license	Yes

House Bill 170 supports Computer Science. For the 2018-2019 SY, it is up to districts on how they award credit. Algebra II has already been voted in. 2019-2020 computer science standards will be in effect