Coding Academy Program Overview

Tallahassee Community College (TCC) has partnered with Griffin Middle to implement a 2020 – 2021 Coding Academy after-school program. This program will be offered to a select group of 20, sixth through eighth graders , both those who attend school in person and virtually through the Digital Academy who are   interested in Science, Technology, Reading, Engineering, Arts, and Math (S.T.R.E.A.M.).

This program will be delivered in 3 sessions throughout the school year on Wednesday and Thurs from 4:15 to 530 PM with a new session commencing each nine weeks. On-site supervision will be provided by an assigned Griffin Middle 21st Century staff member. The curriculum and direct instruction will be provided virtually by BlackRocket. This program is funded through the Verizon Learning Innovative initiative.

Curriculum

The curriculum will include highlights of various programming languages and include session projects. All participating students will complete a pre and post-assessment to track growth in knowledge. Session details are listed below.

SESSION 1: Code Breakers
November 16th – December 17th

Calling all future coders, programmers, & designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! Whether you want to be a Silicon Valley CEO or the high school student who just made $1 million dollars for programming in her bedroom, this course has the essentials you need to begin your journey.

SESSION 2: Python Programmers
January 25th – February 25th

Want to learn the world's fastest-growing programming language favored by Google, NASA, YouTube, and the CIA? Learn how to code with Python to create engaging apps and games. Each lesson takes you step-by-step on a programming path that will let you challenge friends with fun content you create from start to finish!

SESSION 3: Code Your Own Adventure! Interactive Storytelling
April 12th – May 14th

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and JavaScript.

Responsibilities

Griffin Middle will:

- Identify 20 students to participate in the Coding Academy
- Distribute and collect program flyer and permission forms to selected students
- Confirm participating students can use the internet for educational purposes
- Provide TCC, a week before each session, the names of students intended to participate in the program (This will be a year-long commitment however if a student is unable to continue, new students may start at the onset of the succeeding session)
- Ensure that the on-site program support staff administer the pre and post assessments at the onset and conclusion of each session
- During the participation period, a school designee will conduct a presentation, virtually or in-person, to TCC's District Board of Trustees regarding the program impact.
- Ensure that participating students develop thank you messages that can be shared with the funding arm.

TCC will:

- Process registration of participating students
- Assist on-site program support staff with completing the TCC application process
- Process program expenses and payments
- Coordinate with Griffin Middle School's administration on community awareness of the initiative
- Provide pre and post-assessment materials

Proposed Budget

Session	# of Students	Unit Price	Total
Code Breakers	20	$ 130.00	$ 2,600.00
Python Programming	20	$ 140.00	$ 2,800.00
Interactive Storytelling	20	$ 130.00	$ 2,600.00
Sub-Total			$ 8,000.00
Other Expenses	Quantity	Unit Price	Total
Employee Wage	0	$ -	$ -
Promotional T-Shirts	20	$ 10.00	$ 200.00
Prizes			$ 200.00
			$ -
Sub-Total			$ 400.00
Proposed Total			$ 8,400.00

Checklist

- ☐ Informational Flier
- ☐ Student Permission Form
- ☐ Student Approved Internet Use Agreement
- ☐ Course Pre and Post Assessment
- ☐ End of Course Project