



# Hughes Academy of Science and Technology

**Our Magnet Night Open House is October 20, 2016 from 5:30 to 7:00.**

**This meeting is for all prospective families.**

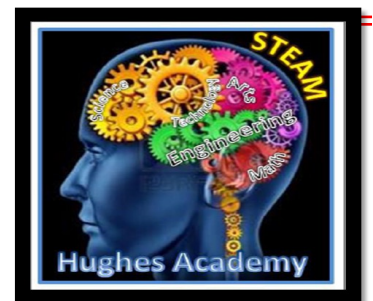
**Come check us out!**

## General Electric

During Engineers Week, 8<sup>th</sup> Grade Hughes Academy students enrolled in Gateway to Technology courses collaborated with engineers at General Electric to invent, design, and improve a product that would make students' lives easier. The students created prototypes, used MakerBot MakerWare, and produced parts using a 3D printer.

Hughes Academy has fifteen 3D Printers for our students to use.

## Linking Students' Science and Technology Skills with Local Companies



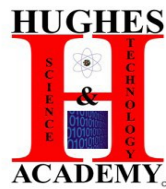
**Hughes  
Academy  
122 DeOyley Ave.  
Greenville, SC  
29605**

**STEAM** Hughes Academy integrates STEAM into the curriculum. STEAM (Science, Technology, Engineering, Arts, and Math) education is an interdisciplinary approach to learning that removes the traditional barriers separating the five disciplines and integrates them into real-world, rigorous, and relevant learning experiences for students.

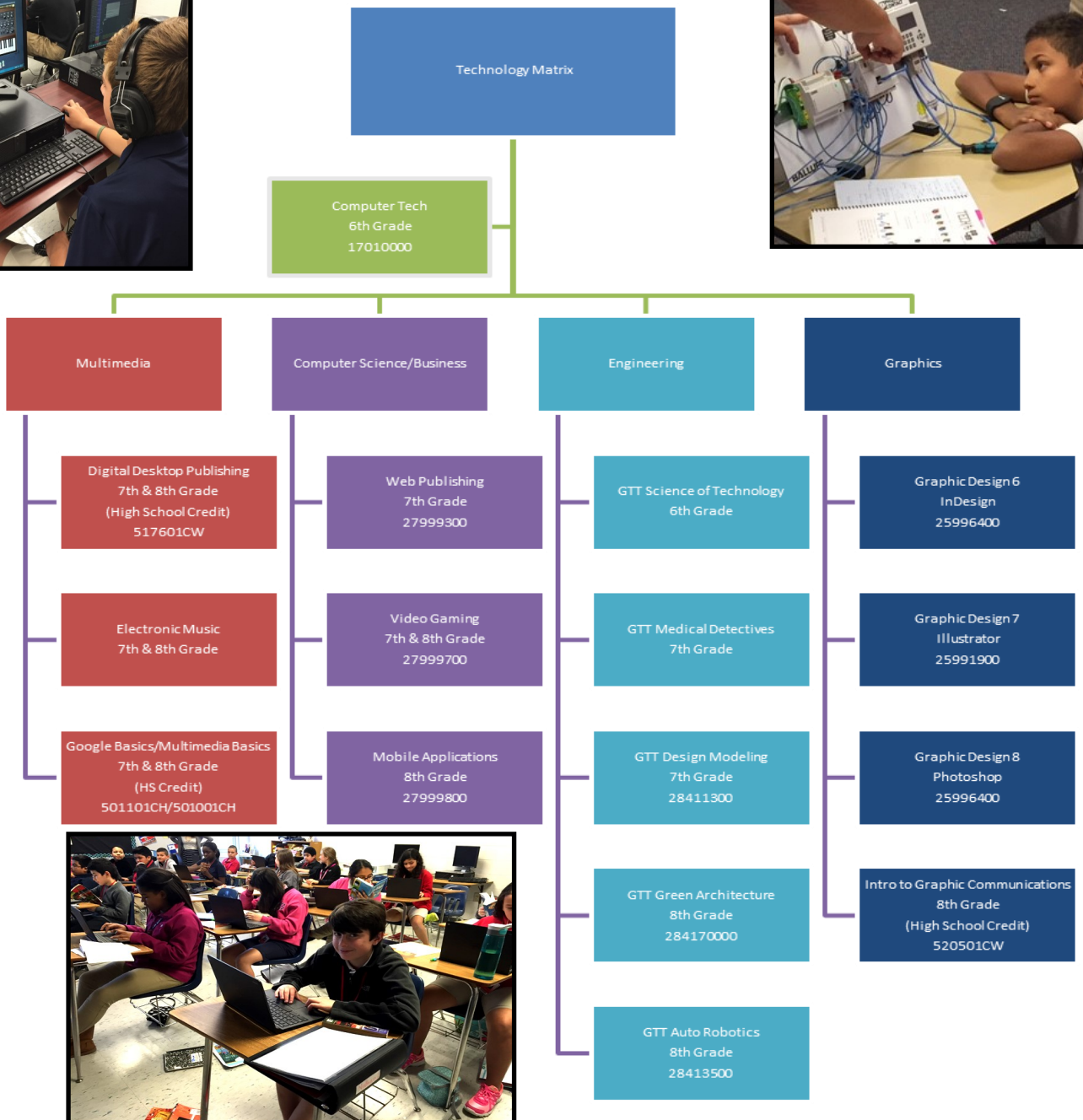
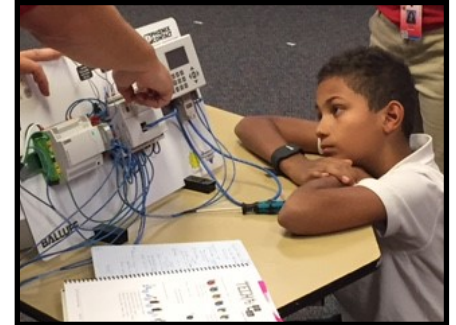
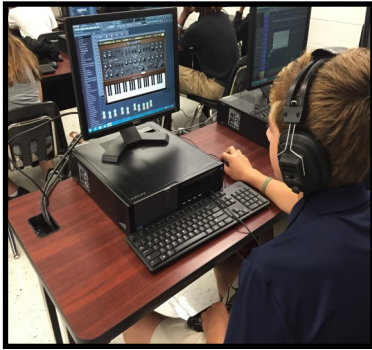


**Interested in applying to Hughes Academy? For more details go to [www.greenville.k12.sc.us/hughes](http://www.greenville.k12.sc.us/hughes) and click on *About Us—Magnet Program.***





# Technology Classes at Hughes





## Science at Hughes Academy

### 6th Grade

#### Labs:

- Dissection – Earthworm (invertebrates)
- Plant growth- Grow beans and corn, multiple labs with live plants
- Mealworm Observation
- Blubber Gloves
- Potential and Kinetic Energy
- Animal Response
- Weather Tools

#### Current Curriculum Units:

- Earth's Weather and Climate
- Energy Transfer and Conservation
- Classification of Living Things
- Animal Adaptation and Survival
- Protists, Fungi, and Plants

#### STEAM Projects

Green Spaces  
Rube Goldberg  
A Night at the Museum

### 7th Grade

#### Labs:

- Bubble Gum Lab (scientific method)
- Elephant Toothpaste (chemistry)
- Slime (chemistry)
- Dissection- Frog (human body systems)
- Gummy Bear Osmosis
- Disease Epidemic
- Urinalysis

#### Current Curriculum Units:

- Classification and Conservation of matter
- Organization in Living Systems
- Inheritance and Variation of Traits
- Interactions of Living Systems & Environment

#### STEAM Projects

Green Spaces  
Environmental Issues  
CSI

### 8th Grade

#### Labs:

- 3-D Maps of Landforms of South Carolina, Models of Earth
- Roller Coaster Design (force & motion)
- Rocket/Race Car Design
- Dissection – Cow Eye (light)
- Waves (stations with reflection and refraction)
- Shoe Friction
- Solar Ovens

#### Current Curriculum Units:

- Forces and Motion
- Waves
- Earth's Systems
- Earth's Resources
- Earth's History and Diversity of Life
- Earth's Place in the Universe

#### STEAM Projects

Immigration  
Grateful Dead  
Wanted  
Waves

## XBOX 360 LAB

Hughes Academy has partnered with the Greenville Health System to offer students the opportunity to work with resident doctors each week. These doctors guide 7th graders through health lessons and provide real world applications. As part of this partnership, GHS donated funds to purchase an XBOX 360 lab. The Physical Education teachers use the lab



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### Spanish Partial Immersion Program

This program is a continuation of a successful completion of the Partial Immersion Language Program at Blythe Academy or a demonstration of equivalent level of language proficiency. Participating students develop second language proficiency in an academic context. The program features rigorous academic curriculum delivered through hands-on activities and opportunities for active involvement. Aligned with World Language Standards and Balanced Literacy Framework, students will develop the ability to think critically about the language and cultures across a broad range of subjects. Students accepted into this program for 2017-2018 will take 6th grade Spanish Language Arts for an extended amount of time. The following years, these students will have Spanish Language Arts and Social Studies in Spanish.

### Spanish Events in 2017

**Pen Pal Intercambio with Spain, Salsa of Greenville, dance performance at Blythe Academy of Languages, field trips, Family Spanish Club meetings, guest speakers, Latin American cooking lessons, and an EF Tour Trip to Spain in 2017.**



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*One Hughes—One Team—One Vision*  
*Excellence in Student Achievement*  
**Dr. Andrew B. Hooker**

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