



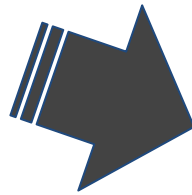
Gaston County Schools
**Technology and Industrial
Engineering**
Academy

Celebrate! Gaston County Schools



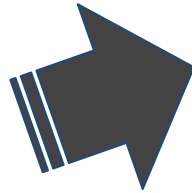
Choice Program Pathways

**STEAM Academy
at Stanley
Middle**



**Technology &
Industrial
Engineering
Academy at
Bessemer City
High School**

**Technology &
Industrial
Engineering
Academy at
Bessemer City
Middle School**





Technology & Industrial Engineering Academy at Bessemer City Middle School

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Technology & Industrial Engineering Academy at Bessemer City Middle School

Program Information

The Technology & Industrial Engineering Academy focuses on student exploration in the areas of industry, computer science and engineering.

The Technology & Industrial Engineering Academy empowers students to lead their own discovery. Students are engaged in activities that build knowledge and skills in the areas of computer science and engineering. Opportunities to explore web development, interactive games and animation, the design process, and computer programming allow students to develop an understanding of the influence of creativity and innovation in their lives. Their exploration opens a range of paths and possibilities they can look forward to in high school and beyond.

Technology & Industrial Engineering Academy at Bessemer City Middle School

Entrance Requirements

- Students must be in good standing, including attendance, behavior, and academics
- Parent/Legal Guardian Resident of Gaston County
- Incoming 6th Grader

Technology & Industrial Engineering Academy at Bessemer City Middle School

Available Seats

- 60 Outside Attendance Area for Rising 6th Graders

Technology & Industrial Engineering Academy at Bessemer City Middle School

Middle School Courses for High School Credit*

- Math I
- Spanish I
- World History
- **Earth & Environmental Science**

**Additional criteria must be met to participate in these courses.*

Technology & Industrial Engineering Academy at Bessemer City Middle School

Middle School Electives

- Art
- Band
- Choir
- Spanish
- Business Technology
- **Computer Science**
- **Engineering**
- PE/Health

Technology & Industrial Engineering Academy at Bessemer City Middle School

Program Overview

- Over 25 design and engineering clubs
- Broadcasting and Digital Communications
- Chess Team
- College and Career Summer Camp



STEAM Academy at Stanley Middle School

Celebrate! Gaston County Schools



STEAM Academy at Stanley Middle School

Program Information

The STEAM Academy at Stanley Middle provides a layered approach to the Core Curriculum incorporating the five strands of STEAM.

The core courses in each grade will be infused as follows:

- 6th grade will focus on Technology, creating a foundation of knowledge and skills
- 7th grade will continue to build on their technology foundation while adding the perspective of the Arts in their core classes
- 8th grade students will apply the concept of Engineering in all of their core courses.

All Core Plus (elective) courses are designed to support students' areas of interest as well as enhance the STEAM experience for them.

STEAM Academy at Stanley Middle School

Entrance Requirements

- Students must be in good standing, including attendance, behavior, and academics
- Parent/Legal Guardian Resident of Gaston County
- Incoming 6th Grader

STEAM Academy at Stanley Middle School

Available Seats

- 40 Outside Attendance Area for Rising 6th Graders

STEAM Academy at Stanley Middle School

Middle School Courses for High School Credit*

- Math I
- Spanish I
- World History
- **Earth & Environmental Science**

**Additional criteria must be met to participate in these courses.*

STEAM Academy at Stanley Middle School

Middle School Electives

- Art
- Band
- Choir
- Spanish
- Business Technology
- Computer Science
- **Medical Science**
- **Engineering**
- PE/Health

STEAM Academy at Stanley Middle School

Program Overview

- Over 30 STEAM Clubs offered during the school day
- All students receive a Chromebook for use during the school day and at home



Technology & Industrial Engineering Academy at Bessemer City High School

Celebrate! Gaston County Schools



Technology & Industrial Engineering Academy at Bessemer City High School

Program Information

The Technology & Industrial Engineering Academy focuses on offering educational opportunities and certifications that will prepare students for careers in engineering, trade & industry. Some of the CTE Engineering courses will be offered at the Advanced Placement (AP) level.

The Academy will be unique in regards to offering theory and real-world experiences. Students will participate in activities that are industry based and job specific such as masonry, carpentry, advanced manufacturing and engineering.

Technology & Industrial Engineering Academy at Bessemer City High School

Entrance Requirements

- Students must be in good standing, including attendance, behavior, and academics
- Parent/Legal Guardian Resident of Gaston County
- Incoming 9th Grader

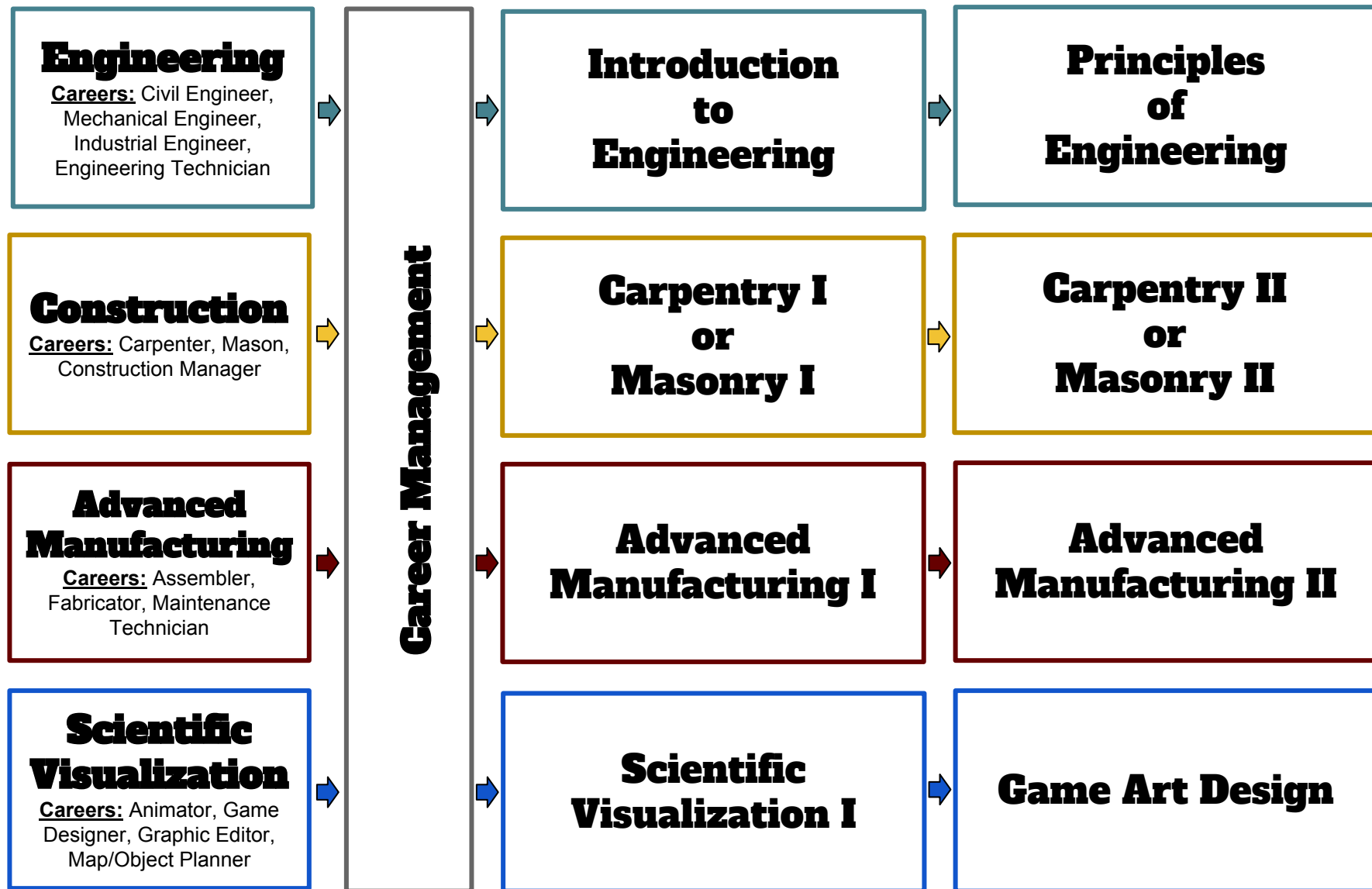
Technology & Industrial Engineering Academy at Bessemer City High School

Program Offerings

- AP Level Career Technical Education (CTE) Course
 - Project Lead The Way Engineering
- Theory Courses
- Hands-On Trade Courses



Technology & Industrial Engineering Academy at Bessemer City High School Course Overview



Technology & Industrial Engineering Academy at Bessemer City High School

Sample Pathway Courses			
Freshman	Sophomore	Junior	Senior
English 1	English 2	English 3	English 4
Math 1	Math 2	Math 3	Math 4
Science 1	Science 2	Science 3	Social Studies 4
Social Studies 1	Social Studies 2	Social Studies 3	Foreign Language / Elective
Health/PE	Pathway Course	Foreign Language / Elective	Pathway Course
Career Management	Elective	Pathway Course	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective



Technology & Industrial Engineering Academy at Bessemer City High School

Possible Certifications

- Certified Production Technician (CPT)
- Conover Soft Skills
- Microsoft Office Specialist Certifications
- National Center for Construction Education and Research (NCCER)
- Occupational Safety and Health Administration (OSHA)
 - Construction
 - Industry



Technology & Industrial Engineering Academy at Bessemer City High School

Potential Careers

Career	Starting Salary
Civil Engineer	\$55,000
Computer Numerically Controlled Programmer	\$32,000
Carpenter	\$26,000
Brick/Block Mason	\$28,000
Certified Nurse Assistant	\$25,000
Graphic Designer	\$29,000
Child Care Worker	\$22,000
Office Assistant	\$22,000

Technology & Industrial Engineering Academy at Bessemer City High School

Experiences

- Apprenticeships
- Internships



SCHOOL



STUDIES



PROFESSION



SKILLS



PERFORMANCE



CAREER



MOTIVATION



GOALS

Celebrate! Gaston County Schools



Technology & Industrial Engineering Academy at Bessemer City High School

Available Seats

- 30 Outside Attendance Area

Technology & Industrial Engineering Academy at Bessemer City High School

Participation

- Students in attendance zone are eligible to participate (*must apply for academy and will participate in lottery*)

Choice Program	Event	Date
Gaston Early College (GEC)	Application Window	January 28 - February 28, 2019
Highland School of Technology (HST)	Application Window	January 28 - February 28, 2019
ALL Other Choice Programs	Application Window	January 28 - February 28, 2019
Highland School of Technology (HST)	Lottery Selection	March 14, 2019
ALL Choice Programs <i>(except: GEC, HST, Hawks Nest, and G&T at Pleasant Ridge)</i>	Lottery Selection	March 15, 2019
Gaston Early College (GEC)	Lottery Selection	April 1, 2019
ALL Choice Programs <i>(except: GEC, HST, Hawks Nest, and G&T at Pleasant Ridge)</i>	Seat Acceptance Deadline	March 29, 2019
Hawks Nest and G&T at Pleasant Ridge	Lottery Selection	May 17, 2019
Hawks Nest and G&T at Pleasant Ridge	Seat Acceptance Deadline	May 31, 2019
ALL Choice Programs <i>(except: GEC and HST)</i>	Waitlist Seat Acceptance Deadline	July 27, 2019

Questions?

