



GREATER SOUTHERN TIER  
**STEM ACADEMY**

***Redesigning  
Education***

- **Individualized pathways to careers**
- **Project-based learning**
- **Workplace experiences**
- **Collaborative learning**
- **Partnerships with business, school and community**
- **A college degree at no cost to families**



## Greater Southern Tier STEM

**Academy** is a Pathways in Technology Early College High School (P-TECH). P-TECH is a new model for secondary education that brings together the best elements of high school, college and the professional world. Students take the lead role in their learning, choosing pathways to their careers and taking college-level, credit-bearing courses from their first year.

The Greater Southern Tier STEM Academy looks and functions similar to a hybrid between college and the workplace. The four- to six-year sequence emphasizes individualized pathways to completion, workplace experiences, mentorship, in-depth project-based learning and real world experiences.



## How does P-TECH work?

Greater Southern Tier STEM Academy students will complete high school, earn a college degree and be ready to begin a career by the time they graduate. The length of enrollment is tailored to the learning needs and educational goals of each student.

### High School

Students take regular high school courses required to earn a high school diploma.

Students receive individual support and guidance as they plan their high school years and begin taking college classes.

Students receive mentoring and internship opportunities to prepare them for college and competitive careers.

### College

Students have the opportunity to **earn an associate degree from Corning Community College at no cost.**

Students take college courses with college faculty.

Students may continue their studies at a four-year college upon graduation.

### Career

Students participate in real work experiences in which they learn teamwork and develop the skills needed for professional and personal success.

Students explore various careers through internship, coaching and mentoring opportunities provided by regional business partners.



## Who are our students?

Greater Southern Tier STEM Academy students are dynamic and diverse. There are no tests to get in – students of all abilities will be accepted.

Greater Southern Tier STEM Academy students:

- Have an interest in and capacity for real-world applications of math, science and technology.
- Have an interest in design, engineering; understanding of “how things work”.
- Work well in a collaborative team environment and like learning with their peers.
- Are able to persist to solve a problem or complete a project.
- Are motivated to learn in new and exciting ways and thrive in a non-traditional classroom setting.
- Aren't afraid of change and want to create their own pathway to success.
- Desire to build strong skills in communications, critical thinking, problem solving and time management.
- Like to think outside the box.
- Have the desire to use their talents and skills to impact their local and global communities.

**One of four pathways – Advanced Technical Education, Health Care, Clean Energy or Information Technology – will lead to attaining an associate degree or certification in areas including:**

- Machine Tool Technology
- Manufacturing Technology
- Mechanical Technology
- Electrical Technology
- Community and Public Health
- Environmental Science
- Chemical Technology
- Computer and Network Technology

## Application Process

Eighth-graders in participating districts can apply. Along with an application and a form that parents fill out, applicants must submit written recommendations from teachers and school counselors. All application materials must be submitted to the offices of the middle school counselor in the student's district of residence by February 9, 2018. Applicants also must participate in a personal interview. Each spring, a minimum of 40 students will be accepted for the following school year. School counselors in students' home districts can provide information on application deadlines.

## Selection Process

- Completed applications received by the deadline are evaluated by the Application and Recruitment Team. Acceptance and wait list letters will be mailed home in May.
- Selected students are required to attend a "Summer Bridge" program for incoming ninth-graders.

## Transportation

Home school districts will transport students from their home school to the Greater Southern Tier STEM Academy, located at 2634 Goff Road, Corning NY 14830.

Students will be bused back to their home schools in time to participate in sports and other after-school activities.



## Greater Southern Tier STEM Academy Business Partners

- Corning Incorporated
- Hilliard Corporation
- Cameron Manufacturing and Design
- Hardinge Incorporated
- Vulcraft Group
- Dresser-Rand A Siemens Business
- Southerntier Custom Fabricators
- Guthrie Corning Hospital
- Arnot Health
- Chemung County Health Center
- Hunt Engineers, Architects and Surveyors
- Renovus Energy
- John Mills Electric
- DePuy Synthes
- Mercury Corporation

## Greater Southern Tier STEM Academy Education Partners

GST BOCES is the lead implementation partner, while Corning Community College is the higher education partner. Other participating local school districts include:

- Elmira
- Addison
- Bath
- Bradford
- Campbell-Savona
- Canisteo-Greenwood
- Corning-Painted Post
- Elmira Heights
- Horseheads
- Odessa-Montour
- Spencer-Van Etten
- Watkins Glen
- Waverly

**For more information, contact:**

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**or go to:**

[www.gstboces.org/  
stemacademy](http://www.gstboces.org/stemacademy)

