You’re Invited to Apply

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4 years
OF MATH AND SCIENCE

2+ years
OF MANDARIN CHINESE

20+
MONTHLY INTERACTIONS
WITH PROFESSIONALS

PBL
PROJECT-BASED LEARNING

A.S.
EARN AN ASSOCIATE
DEGREE BY GRADUATION

100
HOURS COMMUNITY
SERVICE

www.techvalleyhigh.org
About Tech Valley High School

Tech Valley High School is a regional public high school that is open to all students at no cost to parents. Students learn through hands-on projects that are based in authentic applications of New York state’s learning standards.

Located on the campus of SUNY Polytechnic Institute’s Albany Nanotech Complex, TVHS is uniquely situated to provide access to technology resources and partnerships that students need to excel in the global economy. The school partners with businesses and higher education institutions throughout the region to incorporate true-to-life experiences into student learning. In the heart of the region’s fast-growing technology sector, TVHS exposes students to aspects of the global economy and builds on developing 21st century skills while meeting New York state’s learning standards.

Collaborative. The majority of TVHS coursework is completed through a collaborative process that teaches students how to lead, manage and support team goals. TVHS students need to be open-minded and ready to work with business leaders, educators and other students in a professional, collaborative learning environment.

Student-centered. Students at TVHS take an active role in their own education. The control for learning is shifted from the passive style of teacher-directed learning, to the active style of student-engaged learning. Students have a voice in their own education.

Built with partners. Higher education and business partners volunteer on campus and in the field to host students for learning opportunities alongside experts.

Technology-focused. Every TVHS student is provided with a laptop and every classroom is equipped with wireless presentation technology.

Quick TVHS Facts...

- Tech Valley High School students receive a well-rounded education that includes art, technology, foreign language, service learning, experiential learning and physical education, in addition to core subjects.

- Students graduate having met and/or exceeded requirements for New York state Regents and/or Advanced Regents diplomas from their home districts.

- TVHS has a typical student body that mirrors those of students’ home districts.

- The education at TVHS is enriched by the school’s partnerships with area businesses and higher education institutions.
The distinctive environment at Tech Valley High School is centered on project-based learning. Students collaborate on meaningful projects that require critical thinking, creativity and communication to answer challenging questions or solve complex problems. By making learning relevant, students see a purpose for mastering state-required skills and content concepts.

Students aren’t just assessed on their understanding of academic content, but on their ability to successfully apply that content when solving authentic problems. This expands student learning by preparing them with work habits and character traits needed to succeed in whatever the future holds for them.

**PROJECT-BASED LEARNING AT TVHS**

**WORKPLACE EXPERIENCE WITH EXPERTS**

All students at TVHS undertake an annual I-term project in February that allows them to study a potential career.

Freshmen and sophomores take on individual research projects that prepare them for their junior year, when they spend 15 to 25 hours working side-by-side with engineers, doctors, researchers, executives and other professionals.

I-term culminates with Senior Project, a long-term investigation into a career field in which they are interested. Seniors complete a two-week internship and create an authentic artifact and research paper.

**AUTHENTIC OPPORTUNITIES IN THE FIELD**

Projects at Tech Valley High School integrate real-world scenarios and information wherever possible.

For example, in Bioengineering class, students are as likely to be found out in the field gathering data, as they are in the classroom analyzing it.

Each year, students go to the Hudson River where they gather water samples to analyze against historic data collected by previous TVHS classes and other schools.

**STUDENTS AS THE TEACHERS**

Tech Valley High’s education is centered on the students, who drive their own learning. In many cases, projects put students into the teacher’s role.

All students participate in the annual TVHS Design Expo held at SUNY Polytechnic Institute’s Zero Energy Nanotechnology Building. Students either create new projects or revise and polish projects they created earlier in the year.

All of the projects feature problems that were solved through the use of the engineering design process. Students present their work and explain the process to participants, including educators and members of the professional business community.

**INTEGRATED CURRICULUM**

At least one class per grade level integrates two courses.

- Global Humanities (9th - 10th)
- Bioengineering (9th)
- Algebra/Engineering (9th)
- Geometry/Design & Drawing for Production (9th or 10th)
- Inventing America (11th)
- English/Chemistry (12th)
- Participation in Gov/Econ (12th)

**COLLEGE READY**

TVHS, in partnership with Excelsior College, offers a 60 credit Associate of Science degree. Students can earn college credit for courses through University at Albany, Schenectady County Community College, Hudson Valley Community College, The College of Saint Rose and Excelsior College. In addition, TVHS offers college board AP courses. Credits can be aggregated into one diploma through Excelsior College. Students do not have to participate in the degree program in order to take these college courses.

**THE ROLE OF TECHNOLOGY**

TVHS is a 1:1 school, meaning each student is provided with his/her own laptop to be integrated into their everyday learning. They use electronics, software and programs to help them think critically about projects and problems. Students have an awareness and understanding of the region’s emerging technologies, adapt to ever-changing platforms, and even prepare for technology that does not yet exist.
Why choose TVHS?

GRADING
Students are assessed by more than just a number or letter grade; they are evaluated based on self-direction, core content knowledge, collaboration, communication, and technology literacy. This system provides a full understanding of students’ strengths and target areas for growth and gives parents and teachers guidance in tailoring each student’s academic program.

ADVISORIES
Daily mixed-grade advisories provide students with the opportunity to develop close relationships with a consistent group of 10 to 12 peers and a teacher. This teacher, who knows each student well, is the main contact for parents.

COMMUNITY SERVICE
Community service is required to connect students to the world around them and provide them with an opportunity to learn important skills and ethics. Each student is required to complete 100 hours of community service in order to graduate.

DID YOU KNOW?
- The project-based curriculum at TVHS meets all New York state learning standards and students graduate with regents diplomas.
- Interested students apply in eighth grade and are selected by lottery.
- TVHS draws from the 47 public school districts of Questar III and Capital Region BOCES.
- All courses are considered honors-level courses.
- Clubs are formed and run by students based on their own interests. Students may also participate in sports, clubs, dances and other activities in their home districts.
- Over 50 percent of TVHS graduates pursue degrees in science, technology, engineering and math (STEM) fields, compared to 9 percent nationwide. Recent TVHS graduates attend SUNY Poly, RPI, UAlbany, Brown, RIT, Albany College of Pharmacy and others! Employment in STEM fields is projected to grow by 29 percent, adding 2.1 million new jobs through 2020.

Grading:
英勇且自力的学者
成功的学术者
全球的保护者和知情的公民
清晰而有文化的传播者
技术熟练的用户

I would have given anything to get into a school like this.
- Apple co-founder Steve ‘Woz’ Wozniak

Tech Valley High School, Questar III and the Capital Region BOCES do not discriminate on the basis of race, color, national origin, sex, disability, or age in programs, activities, employment, and admissions; and provide equal access to the Boy Scouts and other designated youth groups.

The following person has been designated to handle inquiries regarding the non-discrimination policies: Mike Buono, Compliance Officer at (518) 477-8771 or 10 Empire State Blvd., Castleton, NY, 12033. Inquiries concerning the application of the Tech Valley High School non-discrimination policies may also be referred to the U.S. Department of Education, Office for Civil Rights (OCR), 32 Old Slip, 26th Floor, New York, NY 10005, telephone (646) 428-3800 (voice) or (800) 877-8339 (TTY).