

# Schuykill Technology Centers



## Secondary Program Course Catalog

### North Campus



101 Technology Drive  
Frackville, PA 17931  
570-874-1034

### South Campus



15 Maple Avenue  
Mar Lin, PA 17951  
570-544-4748



Visit us on the web: [www.stcenters.org](http://www.stcenters.org)

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## Administration

**Dr. Gregory S. Koons**

Executive Director  
gkoons@iu29.org

**Shannon Brennan**

Director of CTE  
sbrennan@stcenters.org

**Chris Groody**

Admin-North Campus  
grooc@stcenters.org

**Stacey Minahan**

Admin-South Campus  
minas@stcenters.org



SCHUYLKILL TECHNOLOGY CENTER

# STC Faculty & Staff

## North Campus

### Instructors:

Automotive Technology - Steve Homola  
Carpentry Technology - Allen Wolff  
Culinary Arts - Scott Reichert  
Diesel Technology - Thomas Buff  
Early Childhood Care & Education - Jeanette Tobin  
Emerging Health Professionals - Cyria Hart  
Masonry Technology - Scott Allvord  
Health Careers - Michelle Chicora  
Health Careers - Karen Phillips  
Itinerant Support - Jennifer Pisarz  
Itinerant Support - Jennifer Correll  
Electromechanical Technology- Philip Cimino  
Outdoor Power Technology - Jason Wright  
Social Studies - William Mack  
Social Studies - Ryan Wagner

### Student Services:

Co-op Coordinator - TJ Fitzpatrick  
Nurse - Liz Wolff  
School Counselor - Tracey Picht  
Social Worker - Gretchen Witman

### Support Staff:

Guidance Secretary - Shannon Seiders  
Secretary - Theresa Holley

## South Campus

### Instructors:

Business Management - Brandon Horan  
Carpentry Technology - Philip Kintzel  
Collision Repair Technology - Jesse Krasnitsky  
Computer Information Systems - Elizabeth Worthy  
Cosmetology—Krystal Thomas  
Criminal Justice - Jonathan Flynn  
Culinary Arts - James Gurcsik  
Itinerant Support—Gary Hess  
Itinerant Support - Caroline Barnhart  
Logistic Technology—Nicole Lubinsky  
Plumbing & Heating Technology - Robert Greiner  
Precision Machining Technology - Frederick Cicero  
Residential/Industrial Electricity - David Hess, Jr  
Social Studies - Mackenzie Francis  
Social Studies - Matthew Fees  
Welding Technology - Doug Del Conte

### Student Services:

Co-op Coordinator - TJ Fitzpatrick  
Nurse - Sarah Jackson  
School Counselor - Tracey Picht  
Social Worker - Gretchen Witman

### Support Staff:

Guidance Secretary - Antoinette Purcell  
Secretary - Kathy Dalton  
Secretary - Lisa Bickleman

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# *Schuylkill Technology Center*

## **OUR MISSION**

The mission of the Schuylkill Technology Center is to enable the student to acquire the attitudes, knowledge, skills, and values necessary to become a life-long learner and a productive citizen of a global economy by developing an educational pathway for excellence driven by a partnership with education, business, industry, government, family, and the community.

## **OUR BELIEF STATEMENT**

**The Schuylkill Technology Center believes that:**

- Education is the responsibility of the student, parents, teachers, and the community
- All individuals can learn, but learning occurs at different rates through diversified learning styles
- Individuals are more successful when they are active participants and demonstrate learning
- Individuals are more successful when they set goals make choices, and accept responsibility
- Individuals enrich their learning by participating in family, school, and community activities
- Humanity prospers when people work together
- Diversity enhances growth and strengthens society
- Excellence is achievable and a worthwhile investment
- Learning is a life-long process that is essential for economic stability
- The future of our society depends on the effectiveness of a high-quality education

The Schuylkill Intermediate Unit does not discriminate in its educational programs, activities, or employment practices based on race, color, national origin, sex, sexual orientation, disability, age, religion, ancestry, union membership, or any other legally protected category. This policy is in accordance with state law, including the Pennsylvania Human Relations Act, and with federal law, including Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act of 1967, and the Americans with Disabilities Act of 1990. The Schuylkill Intermediate Unit's commitment to non-discriminatory practices extends to prospective students and employees, current students and employees, parents of students, community members, and representatives of outside agencies.

Schuylkill Intermediate Unit employees, community members, and agency representatives who have a complaint of harassment or discrimination or who seek information about accommodations for individuals with disabilities should contact Dr. Gregory Koons, Executive Director and Equal Rights and Opportunities Director, at Schuylkill Intermediate Unit 29, P.O. Box 130, 17 Maple Avenue, Mar Lin, PA 17954 {Telephone number (570) 544-9131 – Fax number (570) 544-6412}.

# About our School

The Schuylkill Technology Center is an elective option of high school course selection designed to provide the basic technical skills to assist all students to prepare for a career in tomorrow's high tech workforce and enable students to get a "head start" on post-secondary careers. Programs offer basic entry-level skills with "hands-on" training on computerized and technical equipment. Students must have completed the ninth grade to enroll in the Schuylkill Technology Center. All Schuylkill Technology Center's Programs of Studies have articulation agreements to various post-secondary higher education institutes, thus providing for advanced placement and advanced skill opportunities. More information regarding program of studies and articulation agreements can be obtained from the Schuylkill Technology Center's Guidance Department at 570-544-4748 or 570-874-1034 or on the web at [www.stcenters.org](http://www.stcenters.org).

STC offers career and technical education with the support of the following 12 sponsoring school districts: Blue Mountain, Mahanoy Area, Minersville, North Schuylkill, Pine Grove, Pottsville, Saint Clair, Schuylkill Haven, Shenandoah Valley, Tamaqua, Tri-Valley, and Williams Valley. Schools outside of the county may enroll students in STC for a fee.

STC operates two campuses located in Frackville and MarLin. Students have the opportunity to choose from 20 programs of study. Campus assignments are determined by student's program of choice.

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Technical 1320 Hours	Programs of Study	Programs of Study	Programs of Study	Programs of Study
English	College Prep English I	College Prep English II	College Prep English III	College Prep English IV
Math	Algebra I	Algebra II	Geometry	College Prep Math (recommended)
Science	Biology	Chemistry	Physics	
Humanities	Civics	U.S. History	World History	
Other	Foreign Language I (recommended)	Foreign Language II (recommended)		

## Application & Admission Requirements

Students in grades 9, 10, 11, and 12 who reside in the 12 participating school districts may attend the Schuylkill Technology Center. Students can attend for one, two, three or four semesters. Most students enter as 9th graders and stay for four semesters over a four year period. A four year program offers the best opportunity for students to acquire the skills to successfully complete the curriculum, acquire some advanced credit, and obtain industry certifications.

Applications can be obtained from their high school guidance counselor. Students who live in Schuylkill County and attend parochial schools, private schools, charter schools, or are home schooled need to contact the school district in which they reside to obtain enrollment procedures.

Prospective students must complete the STC application process to be considered for admission. Each applicant will be reviewed by STC Guidance (and STC Special Education Department, if student requires supplemental educational services). Admission is granted based on pre-determined district slot allocations. If all of the district's slots are utilized, the remaining applicants are then placed on a waiting list for potential placement as openings occur in those programs.

***Students who have been in alternative placement should demonstrate successful completion of at least one semester at home school prior to admission to STC.***

## **Scheduling Options**

STC operates on a half-year turn about school day. Students are enrolled for one semester at STC; the other semester at the sending district. Session assignment is based on the district in which the student resides and available openings.

## **Checklist for Application to Schuylkill Technology Center**

- Express a desire to learn a trade and a desire to attend Schuylkill Technology Center
- Work independently with minimal supervision to complete a task
- Stay focused on class work and assignments for extended periods of time
- Get along with fellow students and co-workers
- Deal with individuals with different work styles and points of view
- Resolve conflicts in an appropriate manner other than physical or verbal abuse
- Follow multiple step verbal directions
- Perform basic math operations (addition, subtraction, multiplication, division)

## **Non-Traditional Career**

Non-traditional career choices can provide professional and personal satisfaction, greater potential for employment, higher salaries and benefits, greater potential for advanced training, and a greater possibility for promotion within your chosen career.

## **Certificates of Competency**

Students earn a STC certificate of completion when they successfully complete the curriculum and have earned 9 credits (or 12 credits) in their Program of Study.

The Pennsylvania Department of Education requires all students that have completed 2/3<sup>rd</sup> of the curriculum to take an end-of- program exam as a senior. The National Occupational Competency Institute (NOCTI) or an equivalent exam will occur during the last month of the senior year. Student who exceeds an established “cut score” will be awarded a Pennsylvania Skills Certificate recognizing their achievement (For more information regarding PDE required end-of –program exams refer to Students and National Exams). All students will receive their high school diploma from their home school districts.

## **Articulations and Dual Enrollment Agreements**

College is an option for all students who attend Schuylkill Technology Center. A large percentage of STC students continue their education at two and four year colleges/ universities/ technical institutions, apprenticeship programs and other post-secondary schools.

Articulation agreements between secondary and post-secondary schools are cooperative arrangements for granting admission and advanced college credits to students who are continuing their education from one institution to the other. Articulation agreements recognize a student’s mastery of college-level learning during his or her high school program of study. Schuylkill Technology Center has articulation agreement with a wide range of college and technical schools. State-wide articulations offer STC students at a minimum 3 to 12 advance credits in selected post-secondary schools ([www.collegetransfer.net](http://www.collegetransfer.net)). Schuylkill Technology Center has established additional articulations with various post-secondary colleges and technical schools.

Dual enrollment courses allow students to receive both high school credit and college credits. Please refer to the specific program description for details on the post-secondary institutions that provide advanced credit. Schuylkill Technology Center’s website ([www.stcenters.org](http://www.stcenters.org)) provides the most up-to-date listing of Articulations & Dual Enrollment Agreements.

STC participates in the Penn College NOW Dual Enrollment Program, which will be piloted for the 20/21 School Year in the Diesel Technology and Emerging Health Programs. Students who successfully complete the coursework will be awarded credits by Pennsylvania College of Technology.





## **Students Occupationally and Academically Ready** **[www.education.state.pa.us](http://www.education.state.pa.us)**

**SOAR** programs of study prepare today's student for tomorrow's high demand and high wage careers.

**SOAR** is built on programs of study (POS) that incorporate secondary and postsecondary education elements and include coherent and rigorous academic and technical content aligned with Pennsylvania's challenging academic standards.

**SOAR** Agreement Articulation for advanced credit transfer is made possible when Perkins-allocated postsecondary institutions and Pennsylvania secondary schools offering **SOAR** programs agree to the terms and conditions stated in the Perkins Statewide Articulation Agreement.

### **SOAR Mission**

The mission of **SOAR** is to prepare students for college and careers in a diverse, high-performing workforce.

### **SOAR Benefits**

- Saving Money on College Tuition
- Saving Time by Shortening College Attendance
- Getting on the Right Career Pathway
- Getting Consistent Education

### **SOAR Articulation**

**SOAR** credits are accepted at higher education institutions.

### **Student Organizations**

Schuylkill Technology Center's students are encouraged to participate in athletics and extra-curricular activities at their home school districts. Students attending **STC** will have opportunities to develop leadership skills in the career and technical organizations. Each organization fosters leadership, community service, and cooperative interaction among students. Skills competitions, service projects, special events, and social activities are included in the organizations.

**Skills USA** is a partnership of students, teachers and industry working together to ensure America has a skilled work force. **Skills USA** helps each student excel. **Skills USA** is a national nonprofit organization serving teachers and high school and college students who are preparing for careers in trade, technical and skilled service occupations, including health occupations. It was formerly known as **VICA** (Vocational Industrial Clubs of America). **Skills USA** serves as the school's student government. Students participate in community service and competitions.

**National Technical Honor Society (NTHS)** is open to 11<sup>th</sup> and 12<sup>th</sup> grade students that meet certain requirements. **NTHS** encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in today's highly competitive workplace.

**Distributive Education Clubs of America (DECA)** is open to students enrolled in the Marketing program. **DECA** prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools. Students participate in community service and competitions.

**HOSA - Future Health Professionals** is to develop leadership and technical **HOSA** skill competencies through a program of motivation, awareness and recognition, which is an integral part of the Health Science Education instructional program.

Student Ambassador Program is open to students who are interested in developing leadership skills. Ambassadors serve as a liaison between **STC**, the sending districts, and the community.



## **Student Services**

The Student Services for Schuylkill Technology Center plays a critical role in supporting the educational, emotional and social development of all students in relation to their total educational experience. The Student Services for Schuylkill Technology Center cooperates with participating school districts counselors to coordinate guidance and support services for students. The services are available to students and provided by STC staff:

### **Career Guidance and Counseling**

Schuylkill Technology Center's School Counselor assists students in becoming successful students in school, at work, and in their community. Individual and group counseling is available to help students plan future employment or higher education. Information concerning educational opportunity (financial aid, scholarships, post-secondary institutions, military opportunities, etc) is available in the guidance office. Students are encouraged to consider careers that are non-traditional to their gender. STC School Counselor coordinates and proctors the National Occupational Competency Institute (NOCTI) exam and NIMS exam.

### **Social Services**

Schuylkill Technology Center's Social Worker provides individual or group mental health services to STC students, particularly those who receive treatment via their Individual Educational Plans (IEP's). Psychological support is provided to any student that may need assistance either with a psychological or social issue that impedes his or her learning. The school social worker promotes and enhances the overall academic mission of STC by providing services that strengthen home/school/community partnerships as well as intervention strategies to facilitate a stable learning environment for all students.

### **Special Education**

Based on specially designed instruction and accommodations, identified students receive academic and emotional support within the regular vocational shops and pulled-out as needed. Special Educators work collaboratively with shop teachers to address the various level tasks and completion of planned courses and to provide a better understanding of the effects of various disabilities in the vocational environment. Each instructor is made aware of the individual needs of his/her students and obtains a copy of the Individual Education Plan. Assistance is provided to assure compliance with the IEP. Supplemental support is also provided for the students by instructional aides in each vocational shop.

### **School-to-Work Programs (Bridging the Gap)**

The Cooperative Education Program at Schuylkill Technology Center (STC) is designed to provide students with work-based learning opportunity directly related to their occupational program of study. A certified coordinator is responsible for placement, paperwork, on-site visitations, and evaluation of students between the employer and the occupational instructor.

This is a structured program that combines school-based learning with a work-based component and is a partnership among students, parents/guardians, schools, and employers. Co-op is usually a paid work or internship experience; however, unpaid work experiences also comprise a portion of the Cooperative Education Program. Participation in the program is a privilege, and the student must be recommended by the occupational instructor for placement. Eligibility is determined by an evaluation of grades, attendance and punctuality, career goals, attitude, and other factors as deemed necessary.

### **Cooperative Education (Capstone) Guidelines:**

(STC Cooperative Education operates under the Pennsylvania Department of Education guidelines entitled “Cooperative Education Guidelines for Administration.”)

1. A Cooperative Education experience must relate to a student’s program of study.
2. All Co-op student candidates must maintain an 80% or better in their program of study and have 75% or more tasks completed.
3. A Co-op student candidate must be recommended by their STC instructor.
4. A Co-op student candidate must produce a resume (as per STC format).
5. All Co-op student candidates will be interviewed by the Co-op Coordinator before the application process begins.
6. Students under the age of 18 must obtain a “Work Permit” from the sending district.
7. All Forms must be completed before a student begins a Cooperative Education work related program.
8. The student is responsible for his/her own transportation to and from employment; proof of a current driver’s license and auto insurance is required. If transportation is provided by another party, the “Alternative Transportation: form must be completed and signed.
9. A Cooperative Education student must comply to all school and job site attendance requirements; if unable to report to work, the student must notify the employer and the Co-op Coordinator before the start of the normal workday.
10. The Cooperative Education student is not to report to work when suspended from school.
11. The Cooperative Education student will continue to work to complete POS tasks and related assignments when back in attendance in their CTE program.
12. The Cooperative Education student agrees to diligently continue to work toward completion of the STC Portfolio project. Home school senior project, if applicable, the NOCTI exams (both written and performance) or any other industry related testing as part of his/her CTE program.
13. If a Cooperative Education student is not scheduled for work or there is inclement weather, he/she must report to STC for a normal day of instruction.
14. MEETINGS the Cooperative Education student is expected to report to STC for all related Co-op meetings as designated by the Co-op Coordinator.
15. The Cooperative Education student will adhere to all company work site policies, *specifically all safety regulations*.
16. The Cooperative Education student agrees to report any change in job status or related work site problems to both the mentor/job supervisor and the Co-op Coordinator,
17. If the Cooperative Education student quits a Co-op job or is fired, they must report back to STC and immediately contact the Co-op Coordinator.
18. The Cooperative Education Coordinator will visit and monitor the student learner’s progress throughout the duration of the Capstone placement.
19. A “Training Agreement” outlining the student learner’s job responsibilities and POS tasks will be jointly developed by the employer and Cooperative Education Coordinator.
20. Capstone student learner attendance and evaluation are the responsibility of the employer during the Cooperative Education Capstone program duration.
21. An STC student learner will only be placed on work sites where the employer is subject to the Fair Labor Standards Act, the Pennsylvania Minimum Wage Laws, the Worker’s Compensation Act, and all Child Labor Laws.

## Schuylkill Technology Center Cooperative Education Programs

**Job Shadow** - All STC students may observe (shadow) an employee in a business, industrial, or professional job setting for one day (per POS job title). The “Job Shadowing” experience provides the student learner with specific information related to an occupation. This is a non-paid program with no hands-on work activities. Students are required to complete a daily log for each job shadow experience.

**Internship** - All STC students are eligible for an internship experience pending their Program of Study task listing is currently up to date (min. 50% required). This short term work-based program provides specific “hands-on” training related to the students occupational studies. An internship may be a paid or unpaid experience and one to two weeks in length.

**Clinical** - Students in designated STC programs may participate in a clinical experience which is directly related to his/her occupational area as outlined in the course curriculum. Clinical programs are supervised by certified staff. Some clearances and physical tests are required

**Cooperative Education (Capstone)** - Students cap off their formal in-school career and technical education with a related employment experience at a school approved work site. STC students must be recommended for a paid “Capstone” job experience by their Instructor, Home School and STC staff. A minimum of 80% POS tasks must be complete before applying for Capstone. The Capstone program is recommended for grade 12 (Level 3) students who are competent and demonstrate responsibility to proudly represent STC out in the workforce. However, a student may be eligible for Capstone in 11th grade during the last 45 days of a semester if specific criteria is met.

## Schuylkill Diversified Occupations

Students currently attending Schuylkill County school districts have the option to participate in a “Diversified Occupations” program during their senior year offered through the supervision of the Schuylkill Technology Center. The Diversified Occupations (D.O.) one year program prepares students to develop marketable workforce skills through related theory assignments and job training connected with actual employment opportunities. Students must be legally employed for a minimum of 15 hours per week. A secondary student may apply for admission to the D.O. program under the following conditions: (1) STC does not offer a related occupational training program, (2) STC program enrollments are to capacity, or (3) inability to meet entrance requirements for other existing vocational programs. Specific student eligibility requirements include the following:

- Parent/guardian approval
- Full endorsement from sending district administration / staff
- An approved job site (with worker’s compensation insurance)
- Transportation (to and from the job site)
- Valid PA driver’s license and insurance
- Appropriate work dress
- Required Personal Protective Equipment (PPE)
- Necessary tools and/or equipment
- STC/Employer Training Agreement
- STC/Employer Training Plan

The Diversified Occupations program is supervised by the STC Cooperative Education Coordinator, who will also administer one required 90 minute related theory class bi-monthly, which will include related workforce topics such as resume development, work ethics, and workplace safety. The employer and D. O. Coordinator will produce a “Training Plan” outlining the student’s job related tasks and responsibilities connected to current industry standards and OSHA safety regulations. Student evaluation will be determined by related theory assignments, and employer evaluations from the job site.

## Students and National Exams

Pennsylvania utilizes two methods of measuring the occupational competency of career and technical education students. The two methods are assessments from the National Occupational Competency Testing Institute ([NOCTI](#)) and the National Institute of Metalworking Skills ([NIMS](#)).

### National Occupational Competency Testing Institute /NOCTI

PDE requires all secondary concentrators ) who are anticipated to graduate in approved career and technical education programs and completes at least two state-defined CTE courses– completing means passed the course and earned credit for which there is a test available, to take a state-approved occupational competency test in order to meet the requirements of the *Carl D. Perkins Career and Technical Education Improvement Act of 2006* and Chapter 4 of Title 22. This includes Special Education and Tech Prep students. All concentrators who participated in the PSSA testing are expected to also participate in the student occupational competency testing. NOCTI Job Ready Assessments are composed of two sections – written and performance. The written test consists of approximately 180 multiple choice questions that can be answered in 90 to 120 minutes. All NOCTI written tests are required to be taken online. The performance test typically takes two to three hours to administer.

Accountability of school programs becomes more significant each year to students, instructors, parents, administrators, school boards and the Department of Education. The tests used in this testing program are based on state, national and/or industry-based standards. NOCTI tests are designed around criteria for job readiness. Pennsylvania has developed statewide cutoff scores to establish a competency standard which reflects those skills employers expect from entry-level workers.

Students with Individual Education Plans (IEPs) must be included in the testing process. The *Individuals with Disabilities Education Improvement Act* (IDEIA 04) and the *Improving America's Schools Act* mandate that students with disabilities be included in state- and district-wide assessments. If a student with an IEP participates in the PSSA and Keystone statewide testing, then that student will also participate in this occupational competency testing program. Allowable accommodations for all students are described in the *PSSA and PSSA-M Accommodations Guidelines*. Students who take the PASA are exempted from participating in the occupational testing program.

NOCTI collaborated with the National College Credit Recommendation Service (NCCRS) to evaluate several of its assessments. Experienced industry experts and professors evaluated the rigor of the NOCTI assessments to translate the content into college credit equivalencies. Students must meet a 70% benchmark on an approved NOCTI multiple-choice assessment to be eligible.

Test Portion 1 written or performance	Test Portion 2 written or performance	Pennsylvania Certificate Level Achieved	Certificate Earned
Advanced	Advanced	Advanced Level	PA Skills Certificate
Advanced	Competent	Competent Level	Competent Certificate
Competent	Competent	Competent Level	Competent Certificate
Competent	Basic	Basic Level	No Certificate
Basic	Basic	Basic Level	No Certificate
Advanced	Basic	Basic Level	No Certificate

The above criteria is used to determine who receives the Pennsylvania Skills Certificate. The performance levels for career and technical education are Basic, Competent and Advanced. Students who achieve the Advanced Level cut score will receive a Pennsylvania Skills Certificate. Students who achieve the Competent Level cut score will receive a Certificate of Competency.

**Advanced Level** – This level reflects mastery of competence and understanding of academic/career and technical skills and knowledge required for advanced placement in employment and/or postsecondary education.

**Competent Level** – This level reflects a solid acquisition of academic/career and technical skills and knowledge required to enter employment and/or postsecondary education.

**Basic Level** – This level reflects an adequate attainment of academic/career and technical skills and knowledge required to enter employment or postsecondary education. Students with this score “would function at an entry level, but would require some assistance on the job.”

## **National Institute of Metalworking Skills /NIMS**

The NIMS assessments are drawn from industry-validated metalworking standards. Both performance and theory (written) assessments are developed and piloted by the industry.

The PDE and NIMS have partnered to provide NIMS testing in eleven Level I metalworking credential areas. This includes both performance and theory exams. These certification areas include: (1) Measurement, Materials and Safety; (2) Job Planning, Benchwork and Layout; (3) Manual Milling; (4) Manual Turning Between Centers; (5) Manual Turning with Chucking; (6) Manual Surface Grinding; (7) Manual Drill Press Operations; (8) CNC Turning: Programming Setup and Operations; (9) CNC Milling: Setup and Operations; (10) CNC Turning: Operator and (11) CNC Milling: Operator.

In order to achieve a Pennsylvania Skills Certificate, a student must pass FOUR or more credentialing tests before graduation, with at least THREE from Manual Milling; Manual Turning Between Centers; Manual Turning with Chucking; Manual Surface Grinding; Manual Drill Press Operations; CNC Turning: Programming Setup and Operations; CNC Milling: Setup and Operations; CNC Turning: Operator; CNC Milling: Operator (Numbers 3-11 from above).

In order to achieve a Certificate of Competency, a student must pass THREE or more credentialing tests before graduation, with at least TWO from Manual Milling; Manual Turning Between Centers; Manual Turning with Chucking; Manual Surface Grinding; Manual Drill Press Operations; CNC Turning: Programming Setup and Operations; CNC Milling: Setup and Operations; CNC Turning: Operator; CNC Milling: Operator (Numbers 3-11 from above).

In order to achieve the Basic Level, a student must pass TWO or more credentialing tests before graduation, with at least ONE from Manual Milling; Manual Turning Between Centers; Manual Turning with Chucking; Manual Surface Grinding; Manual Drill Press Operations; CNC Turning: Programming Setup and Operations; CNC Milling: Setup and Operations; CNC Turning: Operator; CNC Milling: Operator (Numbers 3-11 from above).

A student who does not meet the minimum for the Basic Level will be classified as achieving Below Basic.

Performance tests will be administered locally by each school in accordance with the NIMS policies and procedures as contained in the *Procedures Manual for NIMS Credentialing Program Machining Level I & II*. The performance portion requires the machining of a part in accordance with the NIMS specifications for that respective credential area. The performance will be evaluated locally using the above procedures. Costs of materials and supplies required for the performance portion of the test are the responsibility of the school.

# Academics

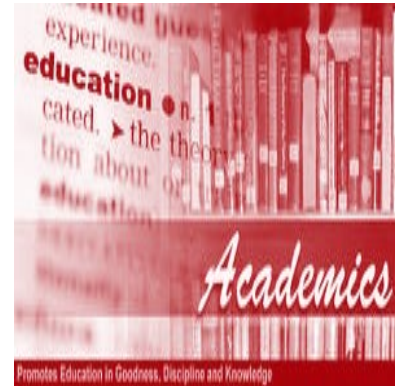
## **Social Studies**

**American Studies I**

**American Studies II**

**Civics/Economics**

**World Studies**



Social Studies is the “integrated study of the social sciences and humanities to promote civic competence. Social Studies is most commonly recognized as the name of a course or set of courses taught in schools, but may refer to the study of particular aspects of human society. In high schools, the Social Studies curriculum becomes more discipline-based and content-specific. It includes various fields which involve past and current human behavior and interactions.





## Social Studies

**Instructors: William Mack & Ryan Wagner (North Campus)  
Mackenzie Francis & Matthew Fees (South Campus)**

Social Studies is offered to all students enrolled at the Schuylkill Technology Center. One credit per semester will be awarded for each social studies course successfully completed. Courses offered meet individual district requirements.

### **AMERICAN STUDIES I- 1cr**

American Studies is a course that focuses on the history of the United States from 1492 to 1877 (Exploration through Reconstruction). Through readings, literature excerpts, political cartoons, simulations, technology projects and more, students will gain insight into the nation's past by examining period accounts and first person voices. Students will use varied resources to examine the links and make connections between events being studied in the textbook/learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

### **AMERICAN STUDIES II- 1cr**

American Studies is a course that focuses on the history of the United States from 1900 to present (Progressive Era through Modern Day America). Through readings, literature excerpts, political cartoons, simulations, technology projects and more, students will gain insight into the nation's past by examining period accounts and first person voices. Students will use varied resources to examine the links and make connections between events being studied in the textbook/learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

### **WORLD STUDIES - 1cr**

World Studies is a course focusing on the diverse ways of life found around the world. Through study of the pertinent issues to the major regions of the world, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is the state's geography standards: maps, environments, places, and regions. Related concepts found in the state civics, economics, and history standards are a supporting focus.

### **CIVICS/ECONOMICS - 1cr**

Civics/Economics is a course that is comprised of two disciplines. Economics is a course that teaches students how to make reasoned economic choices and provide ways they can effectively participate in an increasingly competitive and interdependent global economy. Students will access the impact of market influences and governmental actions on our economy through the use of real world economic applications and analyze how different economic systems interact. In Civics, students will learn about the basic freedoms traditionally enjoyed by American citizens and about the qualities of a good citizen. Students will explore issues about U.S. citizenship and their rights and responsibilities and roles in their communities by putting them in decision-making simulations and assessments that will enable them to acquire the skills necessary to participate in our democratic processes. The major focus of the course is state civics (government, politics, participation, citizenship) and economics (microeconomics, macro economics, economic systems, international trade) standards. Related concepts found in the state geography and history standards are a supporting focus. In order to pass this course a required town meeting project must be done.

### **Program Requirements/Costs (approximate)**

One 3 Ring Binder (2").....	\$10.00
Writing Utensils .....	\$1.00 to \$5.00
Pen (black/blue ink)	
Pencil	
Dividers.....	\$1.00 to \$5.00
(Varies by Instructor)	



# Architecture & Construction

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**Carpentry Technology**

**Masonry Technology**

**Plumbing & Heating Technology**

**Residential/Industrial Electricity**



Architecture & Construction include careers in designing, planning, managing, building, and maintaining the built environment.



## Carpentry Technology (CIP Code 46.0201)

**Instructors: Allen Wolff (North Campus)  
& Philip Kintzel (South Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

### Programs of Study

Level I	Hours
Safety/Occupational Orientation	40
Hand Tools Safety/Usage	60
Measuring/Calculating Materials	20
Level II	Hours
Hand Tools Safety/Usage	10
Blue Print Reading	10
Power Tools Safety/Usage	20
Site Prep Layout	50
Footings & Foundations	80
Framing—Floor Construction	80
Framing—Wall Construction	70
Framing—Roof Construction	40
Level III	Hours
Hand Tools Safety/Usage	10
Power Tools Safety/Usage	23
Blue Print Reading	10
Framing—Roof Construction	40
Exterior Finishing	135
Interior Finishing	142
Level IV	Hours
Hand Tools Safety/Usage	10
Power Tools Safety/Usage	23
Blue Print Reading	30
Interior Finishing	20
Cabinets	100
Fences/Decks	80
Estimation/Job Pricing	97

### CAREER PATHWAYS

- Carpenter
- Construction Laborer
- Helpers – Carpenter
- Rough Framing Carpenters
- Construction Carpenter
- Drywall & Ceiling Tile Installers
- Roofers

### INDUSTRY CERTIFICATIONS

- Hilti Power Actuated Operator's License
- National Association of Home Builders Certification
- National Registry Certification —HBI
- NOCTI Certification—Carpentry (\*National College Credit Recommendation Service)
- OSHA 10
- Werner Ladder & Pump Jack Certification

### STC has Articulation Agreements with the following post-secondary schools:

Clarion University of PA, Commonwealth Technical Institute, Delaware County Community College, Harrisburg Area Community College, Johnson College, Lehigh Carbon Community College, Orleans Technical Institute, Thaddeus Stevens College of Technology, Triangle Tech, Johnson's College

### Program Requirements/Costs (approximate)

3" 3 Ring Binder.....	\$10.00
25' Tape Measure.....	\$12.00
6' Folding Rule.....	\$15.00
Builder's Calculator.....(Optional).....	\$50.00
Carpenter Pencils.....	\$5.00
Carpenter's Tool Belt.....(Optional).....	\$20.00

### Program Entrance Recommendations

Ability to work independently and as a team  
Basic computer skills  
Be able to climb, lift, bend, and stand for prolonged periods of time  
Demonstrate responsibility & safety on a job site  
Geometry/Algebra I  
Reading at grade level



## Masonry Technology (CIP Code 46.0101)

**Instructor: Scott Allvord (North Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble and related materials using trowels, levels, hammers, chisels and other hand tools.

### CAREER PATHWAYS

- Brick Masons & Block Masons
- Helpers—Brick Masons, Block Masons, Stone Masons
- Cement Masons & Concrete Finishers
- Tile & Marble Setters

### INDUSTRY CERTIFICATIONS

- Hilti—Power Actuated Card
- National Registry Certification —HBI
- NOCTI Certification —Masonry/Masonry PA
- Residential Construction Academy (RCA)
- OSHA 10

### Programs of Study

Level I	Hours
Safety/Occupational Orientation	40
Hand Tools Safety/Usage	60
Power Tools Safety/Usage	80
Measuring & Calculating Materials	20
Blue Print Reading	40
Level II	Hours
Demonstrate Safety & Use of Power Tools	80
Use Masonry Fasteners	50
Demonstrate Proper Brick Laying Techniques	100
Demonstrate Proper Block Laying Techniques	100
Estimate Masonry Work	30
Level III	Hours
Read Blueprints	50
Demonstrate Safety & Use of Power Tools	60
Demonstrate Proper Brick Laying Techniques	105
Demonstrate Proper Block Laying Techniques	105
Estimate Masonry Work	40
Level IV	Hours
Read Blueprints	60
Construct Residential Chimneys & Fireplaces	100
Perform Arch Construction	60
Estimate Masonry Work	80
Prepare Building Site	60

### STC has Articulation Agreements with the following post-secondary schools:

Pennsylvania College of Technology, Thaddeus Stevens College of Technology.

### Program Requirements/Costs (approximate)

3" 3 Ring Binder.....	\$10.00
25' Tape Measure.....	\$12.00
Construction Calculator.....	\$70.00

### Program Entrance Recommendations

- Ability to work independently and as a team
- Demonstrate responsibility on the job site
- Geometry (Basic)
- Hand & eye coordination
- Reading at grade level



# Plumbing & Heating Technology (CIP Code 46.0503)

**Instructor: Robert Griener (South Campus)**



A program that prepares individuals to practice as licensed plumbers by applying technical knowledge, safety and skills to lay out, assemble, install and maintain plumbing fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling and industrial processing systems in home and business environments Includes instruction in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, brazing and soldering, plumbing inspection and applicable codes and standards.

## Programs of Study

Level II	Hours
Occupational & Safety Orientation	40
Hand Tools Safety & Usage	60
Power Tools Safety & Usage	80
Measuring & Calculating Materials	20
Blue Print Reading	40
Level II	Hours
Demonstrate Personal Safety in the Training Lab	95
Read Blueprints of Piping Systems	30
Demonstrate Knowledge of Pipe Specifications	60
Demonstrate Use of Hand & Power Tools	40
Demonstrate Skill in Working with Steel Pipes	59
Fabricate Threaded Pipes	21
Perform Tests on Piping Systems	21
Demonstrate Safe Use of Ladders & Scaffolds	34
Level III	Hours
Identify & Install Valves	50
Disassemble & Assemble Valves	15
Demonstrate Skill in Working with Copper Pipes	38
Demonstrate Skill in Working with Cast Iron Pipes	3
Install Appliances	108
Maintain Plumbing Systems	43
Perform Advanced Pipe Fabrication	26
Demonstrate Skill in Various Types of Plastic Pipes	77
Level IV	Hours
Demonstrate Job Site Safety Practice	35
Install Pipe Hangers & Supports	15
Build Water Distribution Lines	32
Demonstrate Transit Operations	15
Build Drains	45
Install Fixtures & Vents	97
Work with Pressure Boilers	51
Work with Hydronic Heating Systems	70

## CAREER PATHWAYS

- Boilermakers
- Helpers—Installation, Maintenance & Repair Workers
- Pipe Fitters & Steam Fitters
- Plumbers
- Retail Salespersons
- Heating & Air Conditioning Mechanics & Installers
- Helpers—Pipe Layers, Plumbers, Pipe Fitters & Steam Fitters
- Pipe Layers
- Plumbers, Pipe Fitters & Steam Fitters
- Septic Tank Servicers & Sewer Pipe Cleaners
- Journeyman Plumber
- Master Plumber

## INDUSTRY CERTIFICATIONS

- NOCTI Certification—Plumbing Technology/Plumber PA
- OSHA 10
- HBI—National Registry Certification

## STC has Articulation Agreements with the following post-secondary schools:

Community College of Allegheny County, Lehigh Carbon Community College, Lincoln Educational Institute—East Windsor Campus, Luzerne County Community College, Orleans Technical Institute, Pennsylvania College of Technology, Pittsburgh Technical College, Thaddeus Stevens College of Technology

## Program Requirements/Costs (approximate)

(2) 3" Ring Binders.....	\$10.00ea.
(1 for Course Information & 1 for Portfolio)	
25' Measuring Rule.....	\$17.00
Safety Glasses.....	\$4.00
Work Shoes.....	\$35.00
Work Uniform (blue or green).....	\$30.00

## Program Entrance Recommendations

Ability to work independently and as a team  
 Demonstrate responsibility on the job site  
 Geometry (Basic)  
 Hand & eye coordination  
 Reading at grade level



# Residential/Industrial Electricity (CIP Code 46.0399) Instructor: David Hess, Jr. (South Campus)



An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

## CAREER PATHWAYS

- Construction & Building Inspectors
- Electrical & Electronic Equipment Assemblers
- Electrical Power Line Installers & Repairers
- Electromechanical Equipment Assemblers
- Helpers—Installation, Maintenance & Repair Workers
- Electric Motor Power Tool & Related Repairers
- Electrical & Electronic Repairers, Powerhouse, Substations
- Electricians
- Helpers—Electricians
- Maintenance & Repair Workers

## INDUSTRY CERTIFICATIONS

- Home Builders Institute Certification in Residential Electricity
- National Registry Certification – HBI
- NOCTI Certification—Electrical & Power Transmission Installer PA
- OSHA 10
- O.S.H.A. 10 Hour Construction Safety Card

## Programs of Study

Level I	Hours
Safety & Occupational Orientation	40
Hand Tools Safety & Usage	60
Power Tools Safety & Usage	80
Measuring & Calculating Materials	20
Blue Print Reading	40
Level II	Hours
Basic Safety	75
Construction Math	33
Hand Tools	16
Power Tools	16
Switches & Receptacles	50
National Electrical Code	50
Fixtures	60
Switches & Receptacles	60
Level III	Hours
Basic Safety	75
Construction Math	30
Anchors & Supports	10
Blue Print Reading	50
Raceways	50
National Electrical Code	75
Green Technology	20
Cable Types & Installations	50
Level IV	Hours
Electrical Services	60
Testing Equipment	52
Wired Devices	26
Residential Cabling Technology	65
Raceways	60
National Electrical Code	57
Green Technology	40

## STC has Articulation Agreements with the following post-secondary schools:

Lehigh Carbon Community College, Lincoln Technical Institute— East Windsor Campus, Orleans Technical Institute, Pennsylvania College of Technology, Rosedale Technical Institute, Triangle Tech, Johnson's College

## Program Requirements/Costs (approximate)

Pair of Work Boots (Composite Optional).....	\$25.00
Basic Template.....	\$5.00
Calculator.....	\$5.00
3" 3 Ring Binder.....	\$10.00

## Program Entrance Recommendations

- Able to adapt to a changing environment
- Able to work with other people & personalities
- A positive & energetic attitude
- Basic math skills (fractions, decimals, etc.)
- Punctual & eager to learn

# Health Science

## Health Careers

### Emerging Health Professionals

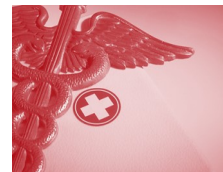


Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.



# Health Careers (CIP Code 51.0899)

**Instructors: Karen Phillips (North Campus)  
& Michelle Chicora (North Campus)**



A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, unit clerk, nursing assisting, etc.

## CAREER PATHWAYS

- Dietetic Technician
- Medical Assistants
- Medical Records & Health Information Technicians
- Nurse Aides, Orderlies & Attendants
- Personal & Home Health Aides
- Healthcare Support Workers, all Others
- Medical Equipment Preparers
- Medical Secretaries
- Occupational Health & Safety Technicians
- Psychiatric Aides

## INDUSTRY CERTIFICATIONS

- Personal Care Home/Direct Care Worker
- OSHA 10-Hour General Industry Safety (Healthcare)
- AHA BLS for Healthcare Providers
- PA Nurse Aide Certification
- NOCTI—Health Assisting (\*National College Credit Recommendation Service)

## Programs of Study

Level I	Hours
Safety	20
Professional, Legal & Ethical Issues	36
Communication	30
Infection Control	46
Emergency Care & Disaster Preparedness	40
Human Needs & Human Development	40
Healthcare Provider Skills	54
Nutrition & Hydration	30
Basic Structures & Functions of the Human Body	36
Medical Terminology	50
Level II	Hours
Safety	30
Infection Control	42
Health Care Provider Skills	72
Basic Structures & Functions of the Human Body	150
Medical Terminology	66
Level III	Hours
Safety	30
Professional, Legal & Ethical Issues	30
Communication	60
Infection Control	18
Emergency Care & Disaster Preparedness	72
Human Needs & Development	30
Healthcare Provider Skills	72
Nutrition & Hydration	30
Death & Dying	18
Level IV	Hours
Safety	20
Professional, Legal & Ethical Issues	30
Communication	30
Infection Control	36
Healthcare Provider Skills	66
Medical Terminology	82
Home Health	96

## STC has Articulation Agreements with the following post-secondary schools:

Commonwealth Technical Institute, Crawford County CTC, CTC of Lackawanna County, Fayette County Area Vocational Technical School, Greater Altoona Career & Technology Center, Greene County CTC, Greater Johnstown CTC, Harcum College, Huntingdon CTC, Lehigh Carbon Community College, Lenape Area Vocational Technical School, Lancaster County Career & Technology Center, Lehigh Carbon Community College, Mercyhurst College, Northern Tier Career Center, Pennsylvania Institute of Technology, Pittsburg Technical Institute, STC LPN Program, Western Area CTC, Wilkes Barre CTC,

## Program Requirements/Costs (approximate)

AHA BLS for Healthcare .....	\$30.00
Uniforms (Medical Scrubs).....	\$50.00
PA Criminal Background Check.....	\$22.00
Two-Step Tuberculin Skin Test.....	\$18.00
Physical Exam.....	Varies
OSHA Certification .....	\$25.00

## Program Entrance Recommendations

- Ability to work independently and as a team
- Basic math skills
- Problem solving/trouble shooting skills
- Reading & writing skills at grade level
- Full use of hands
- Ability to bend, push, pull, and lift a min. of 40 lbs.
- Ability to stand for a prolonged period time.



# Emerging Health Professionals

**Instructor: Cyria Hart**  
(SENIOR ONLY PROGRAM)



The Emerging Health Professionals is a partnership between Penn State Schuylkill, Leigh Valley Health Network - Schuylkill and St. Luke's University Hospital - Miners and other medical facilities. The Emerging Health Career Professional dual-enrollment program combines skills-based, interactive and university level classroom learning with shadowing in the health care setting. The program is designed to prepare students for post-secondary education by offering college science courses. Students spend two half-days a week with Penn State faculty and will spend two half-days a week participating in activities at either LVH or SLUHN. Students spend one half day a week participating in health curriculum taught by the STC instructor at STC North Campus.

## CAREER PATHWAYS

- Family & General Practitioners
- Nurse Practitioners
- Occupational Therapists
- Physical Therapists
- Physician Assistant
- Pharmacists
- Radiologic Technologists
- Registered Nurses
- Respiratory Therapists
- Speech/Language Pathologists
- Sports Medicine Physicians
- Veterinarians
- All healthcare

## INDUSTRY CERTIFICATION

- AHA BLS CPR & AED
- AHA First Aid
- NOCTI - Therapeutic Pathways (National College Credit Recommendation Service)
- OSHA 10 Hour General
- Industry Health Care
- Personal Care Home/Direct Care Worker

## Program Eligibility

### Students who want to apply must:

- Attend a participating Schuylkill County school district
- Be entering their senior year
- Have an overall GPA of 3.0 or better
- Have completed one year of high school biology and chemistry with a grade of 3.0 or better
- Have an excellent attendance record
- Have written recommendations from a high school guidance counselor and one chemistry or biology teacher
- Have scheduled/completed trigonometry with a 3.0 or greater
- Successfully complete an interview

## Program Requirements/Costs (approximate)

### Tuition:

Students are responsible for the cost of all PSU college credits and any additional fees which may include required textbooks, fees, etc. (Penn State Schuylkill offers a 50% tuition reduction.)

AHA CPR and First Aid course  
EHP Uniform Cost

Approximate Total Cost (20-21\*): .....\$3,100.00

### Transportation:

Participants are responsible for their own transportation to all sites, including but not limited to Penn State Schuylkill and all shadowing sites.

\* Subject to change based on PSU tuition.

## Program Entrance Requirements

Students who have met all of the requirements and are accepted into the program must:

- Present a health certification signed by a health care professional (physician, physician assistant or nurse practitioner; a chiropractor will not be accepted)
- Complete tuberculosis (TB) questionnaire and a 2- step tuberculin test as required for shadowing
- Receive an annual flu shot
- Complete required orientation paperwork
- Pay initial deposit fee
- Commit to the entire, school-year long ,program

# Hospitality & Tourism

## Culinary Arts



Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.



## Culinary Arts (CIP Code 12.0508)

Instructors: **Scott Reichert (North Campus)**  
& **James Gurcsik (South Campus)**



An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

### CAREER PATHWAYS

- Bakers
- Combined Food Preparation & Serving Workers
- Cooks, Short Order
- Food Preparation & Serving Related Workers
- Waiters & Waitresses
- Chefs & Head Cooks
- Cooks, Institutional & Cafeteria
- Food Service Manager

### INDUSTRY CERTIFICATIONS

- NOCTI Certification—Culinary Arts II Cook (\*National College Credit Recommendation Service)
- Serv-Safe—Food Safety Managers Certification (\$40.00 to take exam)
- OSHA 10

### Programs of Study

Level I	Hours
Demonstrate Safety Procedures	45
Demonstrate Sanitation Procedures	45
Demonstrate Use & Care of Cutting Tools & Utensils	50
Demonstrate Use & Care of Mechanical Food Preparation Equipment	40
Demonstrate How to Prepare Standardized Recipes	35
Purchasing, Receiving & Storage Procedures	25
Level II	Hours
Demonstrate Safety Procedures	45
Demonstrate Sanitation Procedures	45
Demonstrate Skill in Garde Manger	30
Demonstrate Knowledge of the Food Industry	40
Purchasing, Receiving & Storage Procedures	55
Demonstrate Use & Care of Cutting Tools & Utensils	45
Demonstrate Use & Care of Mechanical Food Preparation Equipment	55
Demonstrate How to Prepare Standardized Recipes	45
Level III	Hours
Prepare Stocks, Soups & Sauces	55
Prepare Cheese	25
Prepare Vegetables & Fruits	55
Prepare Breakfast Foods	45
Prepare Salads, Fruits, & Salad Dressing	75
Properly Add Seasonings to Food	45
Prepare Pasta & Rice	35
Demonstrate Knowledge of Beverages	25
Level IV	Hours
Identify, Prepare & Cook Meats	70
Demonstrate Knowledge of Nutrition	70
Demonstrate Skill in Basic Baking Practices	50
Plan & Cost Menus	20
Perform Institutional Food Service Procedures	30
Perform "Front of House" Operations	60
Perform Dining Room Service	40
Demo Skill in the Use of a Personal Computer	20

### STC has Articulation Agreements with the following post-secondary schools:

Delaware County Community College, Lehigh Carbon Community College, Pennsylvania College of Technology, The Culinary Institute of America, Westmoreland County Community College

### Program Requirements/Costs (approximate)

Two 3 Ring Binders.....\$10.00ea.  
Combination Lock.....\$5.00  
Books & Uniforms.....\$250.00  
(Uniform consists of a white or black chef coat, black and white pants, a white chef's hat and black non-skid shoes).  
The Culinary Professional Workbook.....\$25.00

### Program Entrance Recommendations

A strong will to work  
Accept criticism and deal calmly and effectively with high stress situations  
An understanding of the food industry  
Clear understanding of math, English & grammar  
Good people skills  
Spend a considerable amount of time standing and/or walking  
Understand teamwork

# Human Services

**Cosmetology**  
**Early Childhood Care & Education**



Planning individuals for employment in career pathways that relate to families and human needs.

## Cosmetology (CIP Code 12.0401)

**Instructor: Krystal Thomas (South Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

Programs of Study	
<b>Level I</b>	<b>Hours</b>
Fundamentals of Hair Styling I	130
Fundamentals of Hair Styling II	40
Scalp & Hair Care	30
Thermal Styling	40
<b>Level II</b>	<b>Hours</b>
Fundamentals of Hair Styling II	20
Nail Care	90
Scalp & Hair Care	35
Hair Cutting Techniques I	90
Thermal Styling	20
Skin Care	30
Hair Cutting Techniques II	45
Permanent Waving	30
<b>Level III</b>	<b>Hours</b>
Nail Care	90
Hair Cutting Techniques II	90
Skin Care	35
Permanent Waving	90
Hair Coloring I	55
<b>Level IV</b>	<b>Hours</b>
Advanced Nail Care	45
Chemical Hair Relaxing	120
Hair Coloring I	40
Hair Coloring II	95
Professional Practice	60

### CAREER PATHWAYS

- Funeral Attendants
- Licensing Examiner & Inspector
- Skin Care Specialists
- Hairdresser, Hairstylists & Cosmetologists
- Manicurists & Pedicurists
- Receptionists & Information Clerks
- Teachers & Instructors

### INDUSTRY CERTIFICATIONS

- NOCTI Certification—Cosmetology PA
- OSHA 10
- PA State Cosmetology License \*
- PA Cosmetology Instructor License \*\* +

\* Upon successful completion of 1250 hours.

\*\* Upon completion of additional 500 hours level 4 year.

+ Prerequisite:: 4th level students interested in pursuing the Teacher License must obtain their PA State Cosmetology License prior to starting the 500 hours of required coursework.

**STC has Articulation Agreements with the following post-secondary schools:**  
Lehigh Carbon Community College

### Program Requirements/Costs (approximate)

2" Binder (Portfolio).....	\$8.00
3" Binder (Cosmetology Notebook).....	\$10.00
Black Shirt & Pants (Uniform).....	\$75.00
Cosmetology Kit.....	\$325.00

### Program Entrance Recommendations

- Active listening & speaking skills
- Algebra I, Biology, Chemistry, English
- Computer skills
- Manual dexterity
- Reading comprehension skills
- Social perceptiveness



## Early Childhood Care & Education

(CIP Code 19.0708)

**Instructor: Jeanette Tobin (North Campus)**



An instructional program that prepares individuals for a variety of occupations in child care and guidance, often under the supervision of professional personnel in child or day care centers. This program includes instruction in growth and development; nutrition; program planning and management; safety; behavior guidance; play activities; child abuse and neglect; parent-child personal relationships; learning experiences for children; and laws, regulations and policies relating to child care services.

### CAREER PATHWAYS

- Child Care Worker
- Kindergarten Teacher
- Occupational Therapist Aide
- Special Education Teacher
- Elementary Teacher
- Nanny
- Pre-school Teacher
- Teacher's Assistant

### INDUSTRY CERTIFICATIONS

- ACT 126—Recognizing and Reporting Child Abuse for Mandated Reports of Child Abuse and Neglect
- Child Development Associate (CDA) Read Certificate
- Heart Saver First Aid, CPR, AED Training (American Heart Association)
- NOCTI Certification—Child Care & Support Services PA (\*National College Credit Recommendation Service)
- Health & Safety Basics (6hr)
- Qualification for Assistant Group Supervisor\ Position in PA Department of Public Welfare

### Programs of Study

Level I	Hours
Orientation & Safety	30
Standards, Curriculum & Assessment	100
Curriculum Development	80
Clinical Experience	20
Professionalism	10
Level II	Hours
Orientation & Safety	30
Standards, Curriculum & Assessment	90
Child Development	50
Classroom Management & Positive Guidance	20
Clinical Experience	50
Health & Safety	100
Crime & Violence Prevention	20
Level III	Hours
Child Development (Social, Emotional, Physical, Intellectual)	60
Learning Activities/Experiences	40
Clinical Experience	80
Learning Environment (Physical Space)	120
Standards, Curriculum & Assessment	30
Curriculum Development	30
Level IV	Hours
Learning Activities/Experiences	20
Clinical Experience	100
Health & Safety	120
Professionalism	90
Program Partnerships	30

### STC has Articulation Agreements with the following post-secondary schools:

Community College of Allegheny County, Community College of Beaver County, Harcum College, Harrisburg Area Community College, Lackawanna College, Lackawanna Community College, Lehigh Carbon Community College, Manor College, Montgomery County Community College, PA Highlands Community College, Reading Area Community College

### Program Requirements/Costs (approximate)

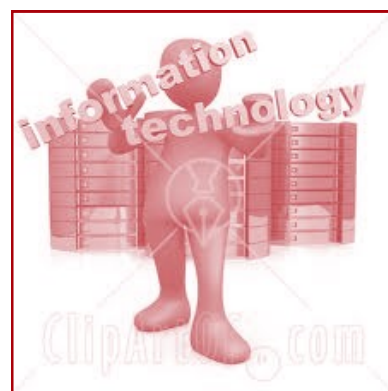
Child Abuse History Clearance.....\$10.00  
 PA State Police Criminal Check.....\$10.00  
 Physical Exam (Including Mantoux Test)...Doctor's Fee  
 Uniform.....\$20.00  
 ACT 126 Training.....\$5.00  
 American Heart Association Training.....\$5.00

### Program Entrance Recommendations

Ability to work independently and as a team  
 Basic math skills or geometry  
 Creativity  
 Hand & eye coordination  
 Problem solving skills  
 Reading at grade level

# Information Technology

## Computer Information Systems



Building linkages in IT occupations framework for entry-level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.





## Computer Information Systems (CIP Code 52.1201)

**Instructor: Elizabeth Worthy (South Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications. This program is designed to provide the capacity to prepare and interpret process and data models, develop and structure software components and to validate the functionality, usability and reliability of those components. Validation skills include testing and debugging. System, component and user documentation is to be performed throughout the process. This program will provide students with the ability to integrate new and existing components. Students will receive instruction in at least two programming languages including at least one procedure-oriented language and one object and visually-oriented language. This course provides a thorough practical knowledge of the concepts, theories, logic and critical thinking skills required when building software applications. Students completing the program will possess a basic technical foundation needed to pursue postsecondary degrees leading to a career as a software developer, analyst project leader or in the management of information technologies. Students may prefer to immediately enter the labor market in an entry-level position as developer or analyst.

### Programs of Study

Level I	Hours
Safety	4
Professional Business Procedures	60
Business Law/Ethics	60
Computer/Internet Fundamentals	60
Programming & System Development	56
Level II	Hours
Safety	2
Professional Business Procedures	18
Computer/Internet Fundamentals	20
Data Analysis Software	60
Programming System Development	220
Computer Maintenance/Troubleshooting	40
Level III	Hours
Safety	2
Professional Business Procedures	18
Computer/Internet Fundamentals	20
Data Analysis Software	60
Programming & System Development	180
Database Administration	45
Computer Maintenance/Troubleshooting	35
Level IV	Hours
Safety	2
Professional Business Procedures	18
Computer/Internet Fundamentals	20
Data Analysis Software	60
Programming & System Development	180
Database Administration	45
Computer Maintenance/Troubleshooting	35

### CAREER PATHWAYS

- Computer Programmers
- Computer Systems Analysts
- Computer Specialists, All Others
- Database Administrators

### INDUSTRY CERTIFICATIONS

- NOCTI Certification—Management Information Systems PA
- CompTIA IT Fundamentals
- TestOut—Desktop Pro
- TestOut—IT Fundamentals

### STC has Articulation Agreements with the following post-secondary schools:

Lackawanna College, Lehigh Carbon Community College, Manor College, Pennsylvania College of Technology, Pierce College, Pittsburgh Technical College, Johnson's College

### Program Entrance Recommendations

- Ability to work independently and in a team
- Algebra I or Geometry
- Hand & eye coordination
- Problem solving/troubleshooting skills (logic)
- Reading at grade level

# Law, Public Safety & Security

## Criminal Justice



Planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support services.



## Criminal Justice (CIP Code 43.0107)

**Instructor: Jonathan Flynn (South Campus)**



An instructional program that prepares individuals for entering post-secondary educational coursework in the field of criminal justice. Individuals completing this program have the knowledge and skills to advance themselves in the various disciplines of criminal justice, including policing, corrections, probation and parole, security, communications, and crime scene management. They also have a requisite understanding of the use of force and health issues.

Programs of Study	
<b>Level I</b>	<b>Hours</b>
Crime Scene Management	5
Court Systems	65
Criminal Law & Procedures	30
Health Issues	5
Police Concepts & Skills	65
Corrections Concepts & Skills	60
Security	5
Working With Special Populations	5
<b>Level II</b>	<b>Hours</b>
Crime Scene Management	100
Use of Force	60
Police Concepts & Skills	100
Corrections Concepts & Skills	20
Security	40
Working With Special Populations	40
<b>Level III</b>	<b>Hours</b>
Police Concepts & Skills	50
Health Issues	100
Use of Force	20
Crime Scene Management	75
Communications	75
Security	20
Working With Special Populations	20
<b>Level IV</b>	<b>Hours</b>
Police Concepts & Skills	50
Criminal Law & Procedure	40
Use of Force	20
Crime Scene Management	75
Security	40
Health Issues	75
Working with Special Populations	60

### CAREER PATHWAYS

- Corrections Officers/Jailers
- Probation Officers/Correctional Treatment Specialists
- Sheriff/Deputy Sheriff
- Police Patrol Officers
- Forensic Science Technicians
- Security Guards
- Retail Loss Prevention Specialists
- Bailiffs

### INDUSTRY CERTIFICATIONS

- CPR/First Aid/AED
- NIMS National Incident Management System (FEMA)
- NOCTI Certification—4081 Criminal Justice
- Hazardous Recognition Identification
- OSHA 10
- PPCI Control Tactics
- PATH (Handcuffing)
- OCAT (Pepper Spray)
- PPBT (Police Baton)
- SALT Mass Casualty Command
- ICS-100 Intro to Incident
- ACT 31/126 Child Abuse Certification

### STC has Articulation Agreements with the following post-secondary schools:

Lehigh Carbon Community College, Montgomery County Community College, Harrisburg Community College, Mount Aloysius College, Reading Area Community College, Manor College, Butler County Community College, Harcum College, Lackawanna College, Westmoreland County Community College, Pennsylvania College of Technology

#### Program Requirements/Costs (approximate)

Khaki Cargo/Tactical Pants.....	\$20.00
Blue/Black/Grey Polo Shirt.....	\$20.00
Brown/Black Belt.....	\$12.00
Tactical Boots/Hikers.....	\$40.00
Criminal Background Check.....	\$22.00
Doctor's Physical.....	

#### Program Entrance Recommendations

- Ability to work independently and in a team
- Basic computer skills
- Be able to run, jog, do sit-ups and pushups.
- Demonstrate responsibility & safety
- Demonstrate good judgement and personal restraint.
- Reading at grade level

# Manufacturing

**Electromechanical Technology**

**Precision Machining Technology**

**Welding Technology**



Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



# Electromechanical Technology

(CIP Code 15.0403)

**Instructor: Philip Cimino (North Campus)**



An instructional program that prepares individuals to apply basic engineering principles and technical skills in both the mechanical and electrical fields. Instruction is planned to provide preparation in the design, development and testing of electromechanical devices and systems such as automatic control systems, servomechanisms, vending machines, elevator controls, missile controls, tape-control machines and auxiliary computer equipment. Instruction also includes feasibility testing of engineering concepts, systems analysis including designs, selection and testing and application of engineering data and the preparation of written reports and test results in support of mechanical and electrical engineers.

## Programs of Study

Level I	Hours
Safety	70
Tools	50
Occupations	40
Blue Prints	30
Measuring	30
Portfolio/Certifications	20
Level II	Hours
Demonstrate Knowledge of Technical Report	25
Demonstrate Safety in the Laboratory	60
Interpret Electrical Symbols on Blueprints & Schematics	25
Demonstrate Knowledge of Basic Electricity	60
Measure Components of Electrical Systems	40
Use of National Electric Code (NEC) Reference Book	30
Demonstrate Knowledge of Electrical Resistance	60
Demonstrate Knowledge of Direct Current (DC) Motors	60
Level III	Hours
Demonstrate Knowledge of Inductance & Capacitance	30
Demonstrate Knowledge of Alternating Current (AC) Motors	45
Demonstrate Knowledge of Series-Parallel Circuits	60
Demonstrate Knowledge of Electric Motor Controls	60
Demonstrate Knowledge of Transformers	30
Demonstrate Knowledge of Alternative Energy	60
Demonstrate Knowledge of Soldering Techniques	30
Troubleshoot & Repair Electrical Devices in the Laboratory	45
Level IV	Hours
Demonstrate Knowledge of Basic Electronics	60
Demonstrate Knowledge of Basic Logic Functions	30
Demonstrate Knowledge of Programmable Logic Controls (PLC's)	60
Demonstrate Knowledge of Mechanical Power Transmission Systems in Industry	30
Demonstrate Knowledge of Fluid Power Systems	60
Troubleshoot/Repair Mechanical & Fluid Power Systems & their Components	60
Demonstrate Knowledge of Robotics	30
Demonstrate Knowledge of Work Cells in a Manufacturing System	30

## CAREER PATHWAYS

- Control & Valve Installers & Repairers, Except Mechanical Door
- Electrical & Electronics Equipment Assemblers
- Electromechanical Equipment Assemblers
- Electromechanical Technician
- Engine & Other Machine Assemblers
- Hydroelectric Plant Technician
- Mechatronics Engineers
- Robotics Technicians

## INDUSTRY CERTIFICATIONS

- NOCTI Certification—8094 Electromechanical Engineering Technology PA
- OSHA 10

## STC has Articulation Agreements with the following post-secondary schools:

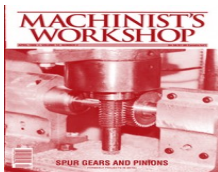
Lehigh Carbon Community College, Lincoln Educational Institute—East Windsor Campus, Pittsburg Technical College, Triangle Tech, Johnson's College

## Program Requirements/Costs (approximate)

One 3 Ring Binder.....	\$10.00
Work Boots.....	\$35.00+
Work Pants (uniform).....	\$16.00
Work Shirt uniform).....	\$16.00

## Program Entrance Recommendations

Ability to work independently and as a team  
Algebra  
Hand & eye coordinating skills  
Reading at grade level



## Precision Machining Technology (CIP Code 48.0501)

**Instructor: Frederick Cicero, Jr. (South Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools, micrometers and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares students to operate all types of hand and computer controlled machines.

Programs of Study	
<b>Level I</b>	<b>Hours</b>
Safety	70
Tools	50
Occupations	40
Blue Prints	30
Measuring	30
Portfolio/Certifications	20
<b>Level II</b>	<b>Hours</b>
Orientation & Safety	50
Performing Layout Work	30
Part Inspection	30
Bench Work	95
Blueprint Reading	35
Operate Grinding Machines	40
Operate Lathes	60
Power Saw	20
<b>Level III</b>	<b>Hours</b>
Operating Lathes	60
Operate Milling Machines	60
Use of Charts & References	40
Shop Math	60
Metallurgy	30
Maintaining Machines & Tools	45
Blueprint Reading	30
Part Inspection	35
<b>Level IV</b>	<b>Hours</b>
Operating Grinding Machines	45
Operate Milling Machines	60
Operating Lathes	40
Maintaining Machine Tools	35
Demonstrate CNC Programming	70
Shop Math	40
Use of Charts & References	40
Blueprint Reading	30

### CAREER PATHWAYS

- Computer-Controlled Machine Tool Operators, (Metal & Plastic)
- Grinding, Lapping, Polishing & Buffing Machine Tool Setters
- Machinists
- Multiple Machine Tool Setters, Operators & Tenders (Metal & Plastic)
- Tool & Die Makers
- Drilling & Boring Machine Tool Setters, Operators & Tenders
- Lathe & Turning Machine tool Setters, Operators & Tenders
- Milling Machine Setters, Operators & Tenders (Metal & Plastic)
- Tool Grinders, Filers & Sharpeners

### INDUSTRY CERTIFICATIONS

- NIMS Measurement, Materials & Safety
- NIMS Job Planning, Bench Work & Layout
- NIMS Milling 1
- NIMS Drill Press Skills
- NIMS Grinding Skills
- NIMS Turning Operations: Turning Between Centers
- NIMS Turning Operation: Turning Chucking Skills
- NIMSCNC Milling-Programming Setup/Op.
- NIMS CNC Turning-Programming Setup/Op.

### STC has Articulation Agreements with the following post-secondary schools:

Butler County Community College, Clarion University, Delaware County Community College, Lehigh Carbon Community College, Luzerne Community College, Pennsylvania College of Technology, Reading Community College, Thaddeus Stevens College of Technology, Westmoreland Community College, Johnson's College

### Program Requirements/Costs (approximate)

3" 3 Ring Binder.....	\$10.00
Leather Steel Toe Work Shoes.....	\$40.00
Safety Glasses-1 Pair Provided (Additional).....	\$6.00
Work Shirt (Black Short Sleeved Dickies).....	\$15.00

### Program Entrance Recommendations

Algebra 1 or Pre-Algebra  
Reading at grade level

## Welding Technology (CIP Code 48.0508)

**Instructor: Doug DelConte (South Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

### CAREER PATHWAYS

- Boiler Makers
- Pipe Fitters/Welders
- Solderers and Brazers
- Steam Fitter/Welder
- Structural Iron and Steelworkers
- Welder, Arc
- Welder, Combination
- Welder, Fitter
- Welder, Assembler
- Welder, Production Line

### INDUSTRY CERTIFICATIONS

- NOCTI Certification—Welding (\*National College Credit Recommendation Service)
- OSHA 10

### Programs of Study

Level I	Hours
Safety	70
Tools	50
Occupations	40
Blueprints	30
Measuring	30
Portfolio/Certifications	20
Level II	Hours
Occupational Orientation & Safety	51
Principles of Welding	40
Welding Drawing & Weld Symbol Interpretation	20
Shield Metal Arc Welding	124
Manual Oxy-Fuel Gas Cutting	85
Gas Metal Arc Welding	20
Visual Examination	20
Level III	Hours
Occupational Orientation & Safety	51
Principles of Welding	15
Drawing Interpretation	25
Gas Metal Arc Welding	109
Shield Metal Arc Welding	50
Plasma Arc Cutting	70
Brazing & Soldering	20
Gas Tungsten Arc Welding	20
Level IV	Hours
Occupational Orientation & Safety	51
Principles of Welding	15
Welding Drawing Interpretation	30
Visual Examination, Inspection & Testing	40
Gas Tungsten Arc Welding	100
Flux Core Arc Welding	75
Manual Carbon Arc Cutting	24
Mechanical Oxy Fuel Cutting	25

### STC has Articulation Agreements with the following post-secondary schools:

Clarion University of PA, Community College of Allegheny County, Delaware County Community College, Harrisburg Area Community College, Lehigh Carbon Community College, Lincoln Educational Institute—East Windsor Campus, Northampton Community College, PA Highlands Community College, Pennsylvania College of Technology, Thaddeus Stevens College of Technology, Westmoreland County Community College, Johnson's College

### Program Requirements/Costs (approximate)

Two 3" 3 Ring Binders.....\$10.00ea.  
 Notebook Dividers.....\$4.00pk.  
 Sheet Protectors.....\$8.00bx.  
 Cotton Welding Hat.....\$10.00  
 Leather Steel Tip Boots.....\$100.00  
 Leather gauntlet Welding Gloves.....\$10.00  
 Leather Work Gloves.....\$10.00

### Program Entrance Recommendations

Able to read & understand US & metric measurements  
 (tape measure)



# Marketing Sales & Service

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## Marketing & Business Management



Planning, managing, and performing marketing activities to reach organizational objectives.



# Marketing & Business Management

(CIP Code 52.1801)

**Instructor: Brandon Horan (South Campus)**



An instructional program that provides instruction in the fields of sales, distribution and marketing operations and focuses on the process and techniques of direct wholesale and retail buying and selling operations. This program is concerned with marketing, sales, distribution, merchandising and management including ownership and management of enterprises engaged in marketing. Marketing education programs prepare individuals to perform one or more marketing function such as selling, pricing, promotion, product/service management, distribution, financing and marketing information management. In addition, instructional programs include varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Sales, distribution and marketing operations prepares individuals for occupations in such businesses as retail and wholesale trade, finance, insurance, real estate, entertainment, hospitality, food service, communications, storage and distribution.

## STC CAREER PATHWAYS

- Marketing Manager
- Meeting, Convention & Event Planners
- Market Research Analysts & Marketing Specialists
- Loan Officers
- Sales Representatives
- Customer Service Representatives
- Demonstrators & Product Promoters
- Account Executive
- Copywriters
- Art Directors
- Advertising & Promotions Associates
- Online Merchant
- Office Clerks, General

## INDUSTRY CERTIFICATIONS

- A\*S\*K Certification
- NOCTI Certification—Sales, Distribution, and Marketing Operations PA

## Programs of Study

Level I	Hours
Math Problems in Marketing	20
Career Development	20
Computer Applications	30
Marketing & Business Fundamentals	40
Communications in Marketing	30
CTSO Participation	20
Advertising	40
Business Management	40
Level II	Hours
Math Problems in Marketing	30
Career Development	30
Computer Applications	50
Marketing & Business Fundamentals	60
Communications in Marketing	30
CTSO Participation	20
Advertising	90
Business Management	50
Level III	Hours
Math Problems in Marketing	30
Career Development	30
Computer Applications	50
Communications in Marketing	30
CTSO Participation	20
Retail & Merchandising	60
Advertising & Selling	100
Business Management	40
Level IV	Hours
Math Problems in Marketing	20
Career Development	40
Computer Applications	50
CTSO Participation	20
Merchandising & Purchasing	40
Customer Service	60
Advertising	30
Business Management/Managing Marketing Info	10

## STC has Articulation Agreements with the following post-secondary schools:

Commonwealth Technical Institute, Lehigh Carbon Community College, Montgomery County Community College, Westmoreland Community College

## Program Requirements/Costs (approximate)

- (1) 1 1/2" 3-Ring Binder.....\$5.00
- (1) 3" 3-Ring Binder.....\$10.00
- (1) 16 GB USB Flash Drive ..... \$15.00
- (1) Headphones/Earbuds ..... \$5.00
- Business Casual Pants/Skirt ..... \$20.00
- Semi Professional Top.....\$15.00
- Shoes (Predominantly One Color).....\$20.00

*Jeans are allowed when not presenting to the class*

## Program Entrance Recommendations

- Ability to work both individually and as part of a team
- Effective communication skills
- Intermediate computer skills
- Problem solving skills
- Reading/Writing at grade level
- Business Math Skills

# Transportation, Distribution & Logistics

**Automotive Technology**

**Collision Repair Technology**

**Diesel Engine Technology**

**Logistics Technology**

**Outdoor Power Technology**

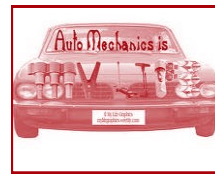


Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.



## Automotive Technology (CIP Code 47.0604)

**Instructors: Steve Homola (North Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

### CAREER PATHWAYS

- Auto Master Mechanic
- Automotive Specialty Technician
- First Line Supervisors/Manager of Mechanics
- Tire Repairers & Changers
- Bus & Truck Mechanics & Diesel Engine Specialists
- Service Station Attendants

### INDUSTRY CERTIFICATIONS

- AC Delco Training Certification
- 609 Refrigerant Certification
- S/P2 Safety Certification
- ASE/NATEF (Completed 2017)  
Requires 2 years work experience
- NOCTI Certification—Automotive Mechanics Technology PA
- OSHA 10
- Pennsylvania State Inspection
- Pennsylvania State Emission Certification
- Emissions Certification

### Programs of Study

Level I	Hours
Safety	60
Tools/Power Equipment/Service Manuals	40
Occupations	20
Preventative Maintenance	20
Measuring/Auto Fasteners	40
Portfolios/Certifications	40
Engine Fundamentals	20
Level II	Hours
Auto Safety	60
Tools/Fasteners/Shop Operations	60
Engine Safety	20
Engine History & Design	20
Engine Rebuilding Operations	80
Auto Brakes/Safety/Theory/Hydraulics	40
Drum/Disc/ABS Braking Systems	80
Level III	Hours
Auto Steering/Suspension Safety	20
Alignment/Geometry	50
Steering Suspension Sub System	50
Electrical System Safety	15
Electrical Meters/Heavy Electrical	75
Electronic Basics	30
Engine Performance Safety/Early/Engine Systems	50
Carb/Distribution/Fuel Injection	70
Level IV	Hours
HVAC Safety/Basic Theory	30
Cooling Systems/AC Servicing	40
AC Systems	50
Electrical Safety/Advanced Systems	60
Advanced Electrical Diagnosis	60
Advanced Electrical Fuel Injection Safety	40
Distributorless Ignition	30
Advanced Engine Diagnostics	50

### STC has Articulation Agreements with the following post-secondary schools:

Commonwealth Technical Institute, Community College of Allegheny County, Community College of Philadelphia, Delaware Community College, Harrisburg Area Community College, Johnson College, Lincoln Educational Institute—East Windsor Campus, Luzerne County Community College, Northampton County Community College, Pennsylvania College of Technology, Rosedale Technical Institute, Thaddeus Stevens College of Technology, Universal Technical Institute, Johnson's College

### Program Requirements/Costs (approximate)

Two 3" 3 Ring Binders.....\$10.00ea.  
 Dickies Work Shirt/ & Pants (Dark Blue).....\$50.00  
 Leather Upper/Oil Resistant Soled Work Boots..\$50.00+

### Program Entrance Recommendations

Able to work independently and as a team  
 Basic math (Algebra I & Geometry) skills  
 Computer skills  
 Coordination skills



## Collision Repair Technology (CIP Code 47.0603)

Instructor: Jesse Krasnitsky (South Campus)



An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or uni-body structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

### Programs of Study

Level I	Hours
Safety	70
Occupations	40
Tools	50
Service Manuals	30
Measuring	30
Portfolios/Certifications	20
Level II	Hours
Refinishing Safety & Environmental Practices	30
Working With Trim & Hardware	30
Using Body Fillers	35
Preparing the Surface for Refinishing	55
Plastic Repair Identification/Repair Decisions/ Adhesive Repair Plastic	100
Detailing	35
Safety	35
Principles of Design & Construction	40
Level III	Hours
Non-Structural Repair—Preparation	30
Panel Replacement & Alignment	50
Straighten & Finish Metals	30
Moveable Glass & Hardware/Stationary Glass Replacement	20
Restoring Corrosion Protection	45
Welding & Cutting—MIG/Cutting & Heating	80
Straighten & Finish Metals	30
Demonstrate Knowledge of Automotive Finishes	45
Applying the Finish	30
Level IV	Hours
Structural Repair/Damage Analysis/Straightening Structural Parts	80
Restraint Systems	25
Full or Partial Panel Replacement	40
Drive Trains & Fuel Intake	50
Tinting & Blending	25
Solving Application Problems & Blending	35
Estimating & Analyzing Damage- Create a Manual Report)	30
Brakes/Heating & Air Conditioning/Brake Systems	75

### CAREER PATHWAYS

- Automotive Body & Related Repairers
- Painters, Transportation Equipment
- Insurance Adjusters, Examiners, & Investigators
- Vocational Education Teacher, Post-Secondary
- Career/Technical Education Teachers, Secondary School
- Cleaners of Vehicles & Equipment
- Automotive Glass Installers & Repairers
- Parts Salespersons

### INDUSTRY CERTIFICATIONS

- NOCTI-Certification—Collision Repair & Refinishing Technology
- S/P2 Safety & Pollution Prevention
- Collision Safety
- Collision Pollution Prevention
- OSHA 10
- ASE Certification (PENDING)

### STC has Articulation Agreements with the following post-secondary schools:

Automotive Training Center, Lehigh Carbon Community College, Lincoln Educational Institute—East Windsor Campus, Pennsylvania College of Technology, Pennsylvania Institute of Technology, Thaddeus Stevens College of Technology, Universal Technical Institute

### Program Requirements/Costs (approximate)

One 1" Binder (Student Portfolio).....	\$4.00
Two 3" Binders (1 for Shop & 1 for NOCTI).....	\$10.00
Clean Sheet Mixing Board.....	\$15.50
Dickies or Similar Type (Pants & Long Sleeved Shirt).....	\$38.00
Hard Soled Shoes.....	\$50.00+
Mixing Board.....	\$4.00
Organic Vapor Respirator.....	\$25.00
Page Tab Markers.....	\$2.00
Plastic Spreader.....	\$0.50
Squeegee.....	\$0.75
Pencils, Pens, Colored Markers.....	\$5.00

### Program Entrance Recommendations

- Ability to work independently and as a team member
- Algebra 1 or Geometry
- Hand & eye coordination
- Mechanical aptitude
- Problem solving/trouble shooting skills
- Reading at grade level



## Diesel Engine Technology (CIP Code 47.0613)

**Instructors: Thomas Buff (North Campus)**



An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of medium and heavy duty trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems, and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components, braking systems, and includes the use of technical repair information and the state inspection procedures.

### CAREER PATHWAYS

- Auto Mechanic
- Bus & Truck Mechanics & Diesel Engine Specialists
- Farm & Equipment Mechanics
- Service Station Attendants
- Tire Repair & Changers

### INDUSTRY CERTIFICATIONS

- S/P2 Safety Certification
- ASE/NATEF (Completed 2017)  
Requires 2 years work experience
- NOCTI Certification—Diesel Technology
- OSHA 10
- Pennsylvania State Inspection
- Mack/Volvo Certificates (80 certificates can be earned)

### Programs of Study

Level I	Hours
Safety	60
Tools/Power Equipment/Service Manuals	40
Occupations	20
Measuring/Auto Fasteners	40
Portfolios/Certifications	40
Preventative Maintenance	20
Engine Fundamentals	20
Level II	Hours
Orientation & Safety	50
Tools/Fasteners/Hardware	70
Preventative Maintenance	125
Demonstrate Engine Knowledge	115
Level III	Hours
Suspension & Steering Systems	115
Brake Systems	211
Electrical/Electronic Systems	34
Level IV	Hours
Electrical/Electronic Systems	60
Air Intake & Exhaust Systems	40
Demonstrate the Knowledge of Cooling Systems	40
Fuel System	40
Drive Line	120
Hydraulics	60

**STC has Articulation Agreements with the following post-secondary schools:**  
Lehigh Carbon Community College

### Program Requirements/Costs (approximate)

(2) 3" 3 Ring Binders.....\$10.00ea.  
Dickies Work Shirt/ & Pants (Dark Blue).....\$50.00  
Leather Upper/Oil Resistant Soled Work Boots..\$50.00+

### Program Entrance Recommendations

Able to work independently and as a team  
Basic math (Algebra I & Geometry) skills  
Computer skills  
Coordination skills  
Problem solving skills  
Reading at grade level  
Writing, spelling, penmanship at grade level



## Logistics Technology (CIP Code 52.0203)

**Instructor: Nicole (South Campus)**



A program that prepares individuals to manage and coordinate logistical functions in an enterprise ranging from acquisitions to receiving and handling, through internal allocation of resources to operations units, to the handling and delivery of output. Includes instruction in acquisitions and purchasing, inventory control storage and handling, just-in-time manufacturing, logistics planning, shipping and delivery management, transportation, quality control, resource estimation and allocation and budgeting.

Programs of Study	
Level I	Hours
Level II	Hours
Level III	Hours
Level IV	Hours

### CAREER PATHWAYS

- 

### INDUSTRY CERTIFICATIONS

- NOCTI Certification—Logistics Technology/ Distribution Center Services
- OSHA 10
- 

**STC has Articulation Agreements with the following post-secondary schools:**

### Program Requirements/Costs (approximate)

### Program Entrance Recommendations

Ability to get along with others  
 Able to work independently and as a team  
 Algebra I or Geometry  
 Mechanical abilities  
 Problem solving skills  
 Reading at grade level





## Outdoor Power Technology (CIP Code 47.0699)

Instructor: Jason Wright (North Campus)



An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rotor tillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

### Programs of Study

Level I	Hours
Safety	70
Tools	50
Occupations	40
Service Manuals	30
Measuring	30
Level II	Hours
Follow Safety Rules & Regulations	32
Knowledge & Design of 2 & 4 Cycle Engines	40
Knowledge of Fuel, Lube, & Exhaust Systems	100
Demonstrate Knowledge of Basic Electricity	60
Demonstrate Skill with Measuring System & Tools	20
Identify & Use Hand Tools & Fasteners	40
Service Manual Starting & Lubrication Systems	40
Identify & Service Governors	28
Level III	Hours
Demonstrate Knowledge & Service Cooling Systems	20
Service Fuel Systems on all Engines	40
Weld with Oxyacetylene Torch	40
Weld with an Electric Welder	20
Diagnose Performance Problems on a 2 Cycle Gasoline Engine	40
Diagnose Problems on a 4 Cycle Gasoline Engine	40
Overhaul a 2 & 4 Cycle Engines	100
Conduct a Failure Analysis on Gasoline Engines	60
Level IV	Hours
Service Electrical Starting Systems	80
Service & Test Charging Systems	80
Service Braking Systems	60
Service Clutch & Equipment Drives	100
Order Repair Parts & Keep Records	40

### CAREER PATHWAYS

- Engine & Other Machine Assemblers
- Motorcycle Mechanics
- Recreational Vehicle Services Technicians
- Electric Motor Power Tool & Related Repairers
- Motorboat Mechanics
- Outdoor Power Equipment & Other Small Engine Mechanics
- Parts Person

### INDUSTRY CERTIFICATIONS

- EETC Certification (Completed 2017)
- NOCTI Certification—Small Engine Technology
- OSHA 10
- S/P2 Safety Certificate

### STC has Articulation Agreements with the following post-secondary schools:

Lincoln Educational Institute—East Windsor Campus, Pennsylvania College of Technology, Universal Technical Institute

### Program Requirements/Costs (approximate)

Two 3" 3 Ring Binders.....\$10.00ea.  
 Dickie Work Shirt/Pants (Dark Blue).....\$50.00  
 Leather Upper/Oil Resistant Soled Work Boots..\$50.00+

### Program Entrance Recommendations

Ability to get along with others  
 Able to work independently and as a team  
 Algebra I or Geometry  
 Mechanical abilities  
 Problem solving skills  
 Reading at grade level

# STC Faculty & Staff

## Administration

**Dr. Gregory S. Koons**, Executive Director

**Shannon Brennan**, Director of CTE

**Chris Groody**, Assistant Director of CTE  
(North Campus)

**Stacey Minahan**, Assistant Director of CTE  
(South Campus)

## Support Services

**Caroline Barnhart**, Special Ed **(South)**  
M.Ed. in Special Education, Alvernia University; B.A. in Elementary Education, Alvernia University; Pennsylvania Special Education Instructional II Certification (N-12); Pennsylvania Teaching Instructional II Certification (K-6); Pennsylvania Principal Certification (K-12); Pennsylvania Special Education Supervisory Certification (K-12); Highly Qualified Social Studies (7-12); Highly Qualified English (7-12); Student Assistance Program (SAP) Certification; i-SAFE Certification.

**Jennifer Correll**, Special Ed **(North)**  
M.Ed. in Special Education (N-12), Lehigh University; B.A. in Elementary Education (K-6) & Special Education Certification, DeSales University; Pennsylvania Special Education Instructional II Certification (N-12); Student Assistance Program (SAP) Certification; i-SAFE Certification.

**Jennifer Pizarz**, Special Ed **(North)**  
M.Ed. in Special Education, & Elementary Education, Bloomsburg University; Pennsylvania Special Education Instructional II Certification; B.S. in Social Sciences (Psychology/Sociology), Bloomsburg University; Student Assistance Program (SAP) Certification; i-SAFE Certification.

**Gary Hess** Special Ed **(South)**  
Certified in Special Education 7-12, B.A. in History (Minor-Geography), King's College; Pennsylvania Secondary Education Level II Certificate in Citizenship Education (Grades 7 to 12); i-SAFE Certification.

## Student Services

**TJ Fitzpatrick**  
**Cooperative Education (North & South)**  
Kutztown University, B.S. Degree in Elementary Education with Minor in Psychology, PSEA member

**Tracey Picht**  
**School Counselor (North & South)**  
M.Ed. in Secondary Counseling, Kutztown University; BA in Psychology, Kutztown University; SAP (Student Assistance Program) Certification., SkillsUSA Advisor; i-SAFE Certification.

**Gretchen Witman**  
**Social Worker (North & South)**  
Masters of Social Work, University of Pennsylvania; B.A. in History/Sociology, Georgetown University; PA License of Clinical Social Work; SAP (Student Assistance Program) Certification; SAP Team Coordinator for STC North & South; Board Certified Diplomat in Clinical Social Work.

## **Career & Technical Education Instructors**

### **Scott Allvord**

#### **Masonry Technology (North)**

Associate of Applied Science (Masonry Construction Technology), Thaddeus Stevens College of Technology; Pennsylvania Vocational I Certification; International Union of Bricklayers & Allied Craftworkers Journeyman; OSHA 10 Certified; MSHA; Scaffold User Certification; L.O.T.O. Trained; Confined Space Trained; Fall Protection Trained; i-SAFE Certification..

### **Thomas Buff**

#### **Diesel Technology (North)**

Pennsylvania Vocational II Certification (Automotive & Diesel Technology), Temple University; Pennsylvania State Inspection Instructor; Pennsylvania Emissions Certification; ASE Certified, Skills USA Advisor; i-SAFE Certification.

### **Michelle Chicora**

#### **Health Careers (North)**

Registered Nurse; BSN Bloomsburg University; Career & Technical Instructional II Certification; American Heart Association BLS Instructor; NATCEP Teaching the Educator Certification; Stop the Bleed Instructor; ALICE Certification

### **Frederick Cicero, Jr.**

#### **Precision Machining Technology (South)**

Pennsylvania Vocational II Certification; NIMS Manual Milling Skills; NIMS Surface Grinding; B.A.S. in Manufacturing Engineering; A.A.S. Tool Making Technology, Pennsylvania College of Technology; NOCTI Precision Machining; Temple Occupational Competency Assessment in Machine Shop; NIMS Measurement, Materials & Safety; NIMS Job Planning, Bench Work and Layout; i-SAFE Certification.

### **Philip Cimino**

#### **Electromechanical Technology (North)**

Teaching Certification, Temple University; Electromechanical Technology, Electronics Technology, Cooperative Education; General Electric Fanuc PLC; Bachelor's Workforce Education and Development, Penn State University; A.A. in Aircraft Armament Systems, A.A. in Electronic Systems, Community College of the Air Force; i-SAFE Certification.

### **Doug DelConte**

#### **Welding Technology (South)**

A.S. in Welding Technology Pennsylvania College of Technology. AWS Certified Welding Inspector/Certified Welding Educator. AWS D1.1 Structural Welding Certification. Pennsylvania Vocational II Certification. Bachelors Equivalency

### **Jonathan Flynn**

#### **Criminal Justice/Police Science (South)**

PA Voc. II Certification; B.S. in Fires Science, minor in Criminal Justice, University of New Haven; NRA Certified Law Enforcement handgun/shotgun instructor; Probation & Parole Officer; Firearms Education and Training Commission Certified Master Instructor.

### **Robert Greiner**

#### **Plumbing Technology (South)**

STC Alumni, Completed a 4-year apprenticeship course in Plumbing at Berks Career & Technology Center, became a Certified Journeyman Plumber in the state of PA in 2010.

### **James Guresik**

#### **Culinary Arts (South)**

Associate Degree in Culinary Arts, Culinary Institute of America; B.S. in Hotel & Restaurant Management, Culinary Institute of America; Certified ServSafe (Food Safety Managers) Instructor

### **Cyria Hart**

#### **Emerging Health Professionals (North)**

MS. Ed, Temple University; BSN, Kutztown University; R.N. Diploma, Pottsville Hospital School of Nursing; Vocational II Certification; American Heart Association BLS Instructor; NATCEP—Teaching the Educator. HO-SA Advisor, ALICE Certification.

### **David Hess, Jr.**

#### **Residential & Industrial Electricity (South)**

Pennsylvania Vocational II Certification, Temple University; Pennsylvania Vocational I Certification, Temple University; OCA in Electrical Construction, Temple University; OSHA Qualified Instructor; MSHA Instructor; Certified in AC/DC Motor Repair; Certified Miller Welder Technician; Certified Hypertherm Plasma Cutter Repair; Qualified Home Integration Systems Instructor; Home Builders Institute Certification; Leviton Certified Installer; Arc Flash/Arc Blast Compliant Instructor; i-SAFE Certification.

### **Steve Homola**

#### **Automotive Technology (North)**

Teaching Certification in Automotive Technology; ASE Master Technician; ASE L1 (Advanced Engine Performance) Certified; ASE Diesel Certified; General Motors World Class Technician.

## **Career & Technical Education Instructors**

### **Brandon Horan**

#### **Marketing & Business Management (South)**

Bachelors Degree(Business Administration) Alvernia University; Associates Degree(Business Management and Marketing) McCann School of Business; Masters Degree(Marketing Education) Temple University, Currently Enrolled; Thirteen years of sales, marketing, and financial aid experience; DECA Advisor; Yearbook Advisor

### **Philip Kintzel**

#### **Carpentry Technology (South)**

M.S. in Education (Classroom Technology Concentration), Wilkes University; B.S. in Industrial Arts Education, Millersville University; Instructional II Certification; Industrial Arts/Technology Education Certification; Pennsylvania Vocational II Certification; Carpentry Certification; Building Construction Occupations Certification; Certified Fairway Vinyl Systems Installer; Certified Timber Tech Elite Contractor; Home Builder's Institute Certification; Simonton Windows Preferred Installer; Penn Dot Verified Flagger; i-SAFE Certification.

### **Jesse Krasnitsky**

#### **Collision Repair Technology (South)**

A.S. in Collision Repair & Refinishing, Pennsylvania College of Technology; ASE Certification in Painting & Refinishing and Non-Structural Analysis; Pennsylvania State Inspection License, OSHA Certified.

### **Nicole Lubinsky**

#### **Logistics Technology (South)**

### **Karen Phillips**

#### **Health Careers (North)**

M.Ed., Temple University; Train the Educator; Pennsylvania Vocational II Certification, Temple University; Pennsylvania Vocational I Certification, Temple University; B.S.N., Misericordia University; R.N. Diploma, Allentown Hospital School of Nursing.; i-SAFE Certification.

### **Scott Reichert**

#### **Culinary Arts (North)**

Pennsylvania Vocational II Certification, Temple University; AOS, Culinary Institute of America; Certified ServSafe (Food Safety Managers) Instructor and Proctor; Adult Education Culinary Arts Instructor; SAP (Student Assistance Program) Member; Skills USA Advisor; i-SAFE Certification.

### **Krystal Thomas**

#### **Cosmetology (South)**

Intern Certificate, Temple University; Cosmetology License, Schuylkill Technology Center; Cosmetology Teacher's License, Schuylkill Technology Center.

### **Jeanette Tobin**

#### **Early Childhood Care & Education (North)**

M.Ed., Career and Technical Education, Concordia University; Pennsylvania Training Certification; B.S. Elementary Education, Lebanon Valley College; State Certification (Grades K to 6-Elementary Education); Family & Consumer Science (Grades K to 12); i-SAFE Certification.

### **Allen Wolff**

#### **Carpentry (North)**

Intern Certificate, Temple University.

### **Elizabeth Worthy**

#### **Computer Information Systems (South)**

Pennsylvania Vocational II Certification; Cooperative Education Certification, National Technical Honor Society (NTHS) Advisor; i-SAFE Certification.

### **Jason Wright**

#### **Outdoor Power Technology (North)**

Pennsylvania Vocational I Certification; EETC Certification (four stroke & two stroke); ASE Master Certification (A-1 thru A-8); PA State Safety Inspection Certification; i-SAFE Certification.

## Academic Instructors

### **William Mack**

#### **Social Studies (North)**

M.Ed., Curriculum and Instruction, Bloomsburg University; B.S. in Secondary Education (Social Studies), Pennsylvania State University; Pennsylvania Teaching Level II Certification in Social Studies (Grades 7 to 12), Skills USA Advisor; i-SAFE Certification.

### **Ryan Wagner**

#### **Social Studies (North)**

M.Ed. Secondary Education - Incorporating Technology into the Curriculum, Notre Dame College  
B.A. in History - Mercyhurst University  
Level II Certification in Social Studies (Grades 7-12)

### **Mackenzie Francis**

#### **Social Studies (South)**

Graduate of Kutztown University in 2017 with a bachelor degree in secondary education. Certified grades 7-12 Social Studies.

### **Matthew Fees**

#### **Social Studies (South)**

2018 Summer Fellowship winner- Gilder Lehrman Institute of American History. Teaching Experience 2015-2018 Volcano Vista High School Albuquerque, New Mexico. B.A. Citizenship Education Waynesburg University 2011. Graduate of Tamaqua Area High School 2007

***STC offers career and technical education  
with the support  
of the following sponsoring School Districts:***



***Schuylkill Technology Center consists of **two** campuses:***

**North Campus** | 101 Technology Drive | Frackville, PA 17931 | Ph: 570-874-1034 | Fax: 570-874-4028

**South Campus** | 15 Maple Avenue | Mar Lin, PA 17951 | Ph: 570-544-4748 | Fax: 570-544-3895

**[www.stcenters.org](http://www.stcenters.org)**