

# Annual Report

2017-2018

*"Preparing Tomorrow's Workforce Today"*



**Middle Bucks Institute of Technology**

2740 York Road  
Jamison, PA 18929

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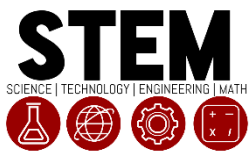
## OVERVIEW

### Strategic Highlights



Our Administrative Director, Mrs. Kathryn Strouse, received the Administrator of the Year Award at this year's Pennsylvania Association of Career and Technical Education Conference. Mrs. Strouse has served as our Administrative Director for the past 10 years and has worked in various leadership capacities during her 21-year career at Middle Bucks including Adult Education Supervisor and Assistant Principal.

A team of educators led by Mrs. Stacy Pakula, our CTE Supervisor, headed to Washington, DC in July to participate in the Smithsonian International K-12 Science Education Institute for Leadership Development and Strategic Planning Conference. The Middle Bucks team included the following teachers: Mr. Sean Castineira (Sports Therapy & Exercise Management), Mr. Randy McDowell (Electrical Technology), Mrs. JoAnn McLaughlin (Cosmetology), Mr. Tom Omerza (Networking Security), and Mrs. Lise Rich (Early Childcare Education). The focus of the program is to review implications of research and new standards for teaching Science and constructing a vision for inquiry-based, hands-on STEM education. Middle Bucks would like to thank Mrs. Tracy Suits, one of our MBIT School Board members, for arranging this opportunity, which was funded through the Johnson & Johnson Pharmaceutical Company.



Middle Bucks Institute of Technology proudly hosted SkillsUSA District 2 Competitions in January where students from eight career and technical schools in Bucks, Delaware and Montgomery Counties competed in their program of study area.

The entire faculty at MBIT participated in three-days of professional development sponsored by the Pennsylvania Department of Education on Writing in the CTE Content Area.

### Financial Highlights

Middle Bucks Institute of Technology's Annual Operating Budget for 2017-2018 was \$11,064,970.

The Adult Education Program posted a \$11,158 profit the 2017-2018 school year.

Li'l Bucks Partners in Learning, our on-site childcare center posted a \$268 profit in the 2017-2018 school year.

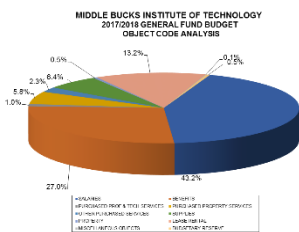
### Operating Highlights

During the summer months, Phase I of a new roof installation project began with the replacement of Sections A, B and C. Phase II is scheduled to begin in summer 2019 with Phase III the following summer.

### Looking Ahead

It is hard to believe that Middle Bucks Institute of Technology will be celebrating its 50<sup>th</sup> Anniversary during the 2019-2020 school year. The plans have already begun to celebrate this milestone occasion.

Kathryn Strouse  
Administrative Director  
August 2018



## Goals and Objectives

MIDDLE BUCKS  
2017-2018  
EXECUTIVE  
COUNCIL MEMBERS

CENTRAL BUCKS  
SCHOOL DISTRICT

JOHN H. GAMBLE

KAREN SMITH  
(Secretary)

TRACY R. SUITS

CENTENNIAL  
SCHOOL DISTRICT

FLEMMING  
GODIKSEN

CHARLES  
KLEINSCHMIDT

MARK B. MILLER  
(Vice-Chairperson)

COUNCIL ROCK  
SCHOOL DISTRICT

ANDY BLOCK

MARK BYELICH

NEW HOPE-  
SOLEBURY SCHOOL  
DISTRICT

STANLEY MARCUS  
(Chairperson)

### Enhance Student Achievement

- Teachers participated in professional development sponsored by PDE titled Writing in the CTE Content Areas.
- Teachers received small group instruction on how to interpret NOCTI blueprints to improve achievement.
- NOCTI Pre-test administered to all seniors to establish a baseline score.

### Establish a system to ensure students academically at risk are supported

- Updated the PDE Comprehensive Guidance and Counseling Plan.
- Developed a secure, confidential method of students to report concerns to members of the Student Assistance Team.

### Increase opportunities for students to earn industry certifications

- Established American Safety & Health Institute (ASHI) training center at MBIT to offer industry certification testing on-site to Public Safety students.
- Implemented through the Medical Certification Association (AMCA) industry certifications in the areas of AMCA Certified Personal Trainers and AMCE Physical Therapy Aid.

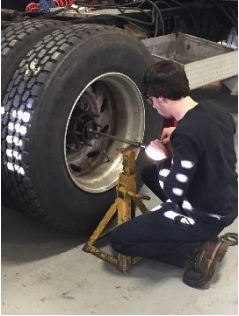
### Create additional workplace opportunities for students

- Established a clinical partnership with the Doylestown Family YMCA for students enrolled in the Sports Therapy & Exercise Management program.
- Established a clinical partnership with The Thompson Organization for students enrolled in the Collision Repair program.

### Enhance School Security

- Hired a School Safety & Security Monitor.
- Developed and implemented a Fall Protection in the Residential Construction program.

## Secondary Programs Overview

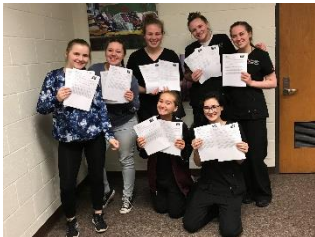


**Collision Repair Technology:** A clinical partnership between MBIT and The Thompson Organization was formed to provide students in the Collision Repair Technology program the opportunity to shadow skilled technicians on-site at this high tech facility.



**Engineering Related Technology:** Penn Engineering in Danboro, Pennsylvania invited the Engineering Related Technology students at Middle Bucks Institute of Technology to work alongside Ms. Jennifer Lake, a Mechanical Engineer, to study a Chevrolet Volt Hybrid Electric car that was damaged by water from a recent hurricane. Ms. Lake came to the school to conduct a teardown analysis of the automobile to study the water damage to the automobile with the Level 300 Engineering students assisting.

**Medical & Health Professions:** All of the students participating in the Nurse Aide training program passed their Pennsylvania State Nurse Aide Certification Boards. The exam includes a written component as well as a performance assessment conducted by an independent Nurse Aide Evaluator. This is the third consecutive year that all students have successfully passed the state boards.



**Residential Construction:** The student built house moved to its permanent location on Ferry Road in New Hope, Pennsylvania on Tuesday, July 3, 2018. The house was built primarily by students in the Residential Construction program with assistance from students in the Computerized Drafting and Engineering Graphics, Electrical Technology and HVAC/Plumbing programs. The house is a 2-story, 4 bedrooms, 2 1/2 baths that is 2,240-square feet and includes a kitchen, dining room, living room and laundry room.



**Sports Therapy and Exercise Management:** A partnership between MBIT and the Doylestown Family YMCA was initiated to provide **Level 200 students with** a clinical experience working with people in the THRIVE program. THRIVE is a 12-week group personal training program designed for people who have become de-conditioned or chronically fatigued from battling cancer. The high school students worked under the guidance of specially trained personal trainers to assist participants in regaining muscle mass and muscular strength, increasing flexibility and cardiovascular endurance, and improving functional ability.



## NOCTI Industry-Based Credential



NOCTI is the assessment administered to students studying career and technical programs in high schools and technical colleges. The assessment includes both written and performance components that are scored by independent evaluators with expertise in their field.

### How Students Benefit from NOCTI Industry-Based Credential:

- ✓ Meets state and federal accountability requirements for technical skill attainment.
- ✓ Implements consistent testing across programs.
- ✓ Provides educators with assessment data to support program improvement goals.
- ✓ Assists with meeting accreditation requirements.



### Overall NOCTI Scores

- NOCTI was administered to 178 students
- 88% of all students scored Advanced or Competent on the NOCTI
- 116 students received the Pennsylvania Skills Certificate signed by Governor Wolf
- Automotive Technology, Collision Repair Technology, Horticulture, Electrical Technology, Landscape & Design, and Medical & Health Professions students scored 100% Advanced in both the written and performances components.

### Written Scores

- 84% of students scored Advanced
- 13% of students scored Competent
- 3% of students scored Basic

### Performance Scores

- 72.5% of student scored Advanced
- 17.5% of students scored Competent
- 10% of students scored Basic

### College Credits Earned

The National College Credit Recommendation Service (NCCRS) evaluates all NOCTI credentials. 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 to be eligible to earn college credit.

- 112 students earned 3 college credits
- 11 students earned 4 college credits (Culinary Arts & Science)
- 347 total college credits were awarded





## Work-Based Education Report



### Work-Based Educational Experiences

Middle Bucks works in cooperation with local business and industry to provide employment opportunities including apprenticeships, internships, clinical experiences, and job shadowing.

- 57 students held cooperative education jobs
- 91 students participated in non-paid internships or clinical experiences
- 53 employers sponsored students through various work-based experiences
- 74 students were hired to fill jobs in our community

### Post-Secondary Plans

Middle Bucks surveyed 211 seniors about their experience at MBIT and their post-secondary plans.

- 72% plan to continue in their related program of study
- 63% plan to continue on to college
  - 55% Bucks County Community College
  - 12% Penn College of Technology
  - 11% Pennsylvania State University
- 55% plan to enter the workforce
- 5% plan to join the military



### Industry Certifications Earned

Middle Bucks provides students the opportunity to complete nationally recognized industry credentials or certifications.

- 1632 Industry certifications earned by students



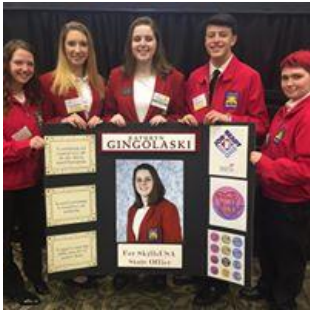
### Bucks County Community College

Bucks County Community College (BCCC) offers juniors and seniors the opportunity to earn college credit while still in high school through two 15-week courses offered from 2:15PM – 3:30PM on Tuesdays and Thursdays at Middle Bucks Institute of Technology.

- Introduction to Entrepreneurship (3 credits)
- 13 students enrolled in the class
- BCCC paid 50% of the tuition; MBIT 25% and the student paid 25%



## Secondary Data



### Enrollment Trends

- 764 students
- 3.3% decline in enrollment over previous school year

### Attendance Rates by District

- 87.08% Centennial SD
- 88.17% Central Bucks SD
- 87.21% Council Rock SD
- 86.98% New Hope-Solebury SD



### District Draw – Percentage of 10<sup>th</sup> through 12<sup>th</sup> population

- 14.5% Centennial SD
- 7.8% Central Bucks SD
- 5.1% Council Rock SD
- 4.9% New Hope-Solebury SD

### Special Education Population

- 46.6% Centennial SD
- 45.1% Central Bucks SD
- 57.0% Council Rock SD
- 47.6% New Hope-Solebury SD





## Perkins Secondary Performance Indicators

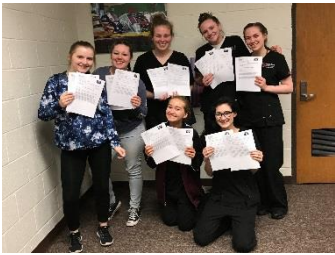


### State-Wide Performance (Expectations)

- 61.77% Keystone Literature
- 51.71% Keystone Algebra

### Consortium Performance (MBIT Sending School Districts)

- 66.84% Keystone Literature
- 56.48% Keystone Algebra
- 91.50% Technical Skill Attainment
- 99.53% Graduation Rate



### Keystone Literature – Scores for MBIT students

- 59.62% Centennial SD
- 67.35% Central Bucks SD
- 70.59% Council Rock SD
- 100.0% New Hope-Solebury SD



### Keystone Algebra – Scores for MBIT students

- 46.15% Centennial SD
- 61.0% Central Bucks SD
- 52.94% Council Rock SD
- 85.71% New Hope-Solebury SD



### Technical Skill Attainment

- 94.44% Centennial SD
- 91.18% Central Bucks SD
- 86.49% Council Rock SD
- 100.0% New Hope-Solebury SD

### Graduation Rate

- 100.0% Centennial SD
- 99.07% Central Bucks SD
- 100.0% Council Rock SD
- 100.0% New Hope-Solebury SD



## Adult Education Report

Middle Bucks has been providing technical education to meet the needs of adults for over 40 years through:

- Adult Evening Classes
- Adult Day Programs
- Online Courses
- Customized Industry Training for Employers



### Adult Evening Classes

- 317 adults enrolled in the Fall 2017 semester
- 257 adults enrolled in the Spring 2018 semester
- 574 total enrollment
- 91 employers paid the tuition for their employee(s)



### Adult Day Program

- 7 adults attended classes with our high school students during the day
- Enrollment in Adult Day Programs has declined due to lack of funding resources



### Online Courses

- 20 students enrolled in online classes

### Customized Industry Training

- Custom Blueprint Reading
- Machine Shop Fundamentals



### Financial Outlook

- Adult Education posted a \$11,158 profit in 2017-2018



## Business and Industry Partners

### Local Advisory Committee (LAC)

The LAC is a critical component of our continuous improvement system at MBIT. The members are stakeholders and secondary clients. Collectively they provide a breadth and depth of occupational expertise necessary to maintain a relevant and current program.

More specifically, the LAC is responsible for guiding the overall development and implementation of the educational program and services, counseling the Executive Council and helping to develop the MBIT Strategic Plan. This body is comprised of approximately 15 to 25 key leaders in the community representing a broad array of local businesses, industries, organizations, agencies, and education. These individuals work toward consensus and are willing to accept personal responsibility for the success of MBIT.

### Occupational Advisory Committees (OAC)

In accordance with Pennsylvania School Code 24PS 18-1808 – Advisory Committees, local school boards administering career & technical schools appoint an advisory committee composed of members representing local trades, industries and occupations.

More specifically, each OAC is responsible for guiding the program, counseling the teaching and administrative staff, and helping to develop a vision for the program. This body shall advise school personnel on curriculum changes, equipment and tool purchases, safety, and facility upgrades.

The OAC shall be comprised of a broad representation of the industry including incumbent workers (union and nonunion), supervisors and management personnel, vendors, trade association representatives, students, and parents. These individuals/constituents shall be people of goodwill and willing to accept personal responsibility for the success of the program.

### Clinical Partners

Middle Bucks greatly appreciates the businesses in our community that partner with us to provide our students with a clinical experience in addition to their classroom instruction.

- Abington Hospital-Jefferson Health
- Bucks County Intermediate Unit 22
- Neshaminy Manor
- The Thompson Organization
- Doylestown Family YMCA
- Bucks County Public Safety/Police Training Center



The Thompson Organization



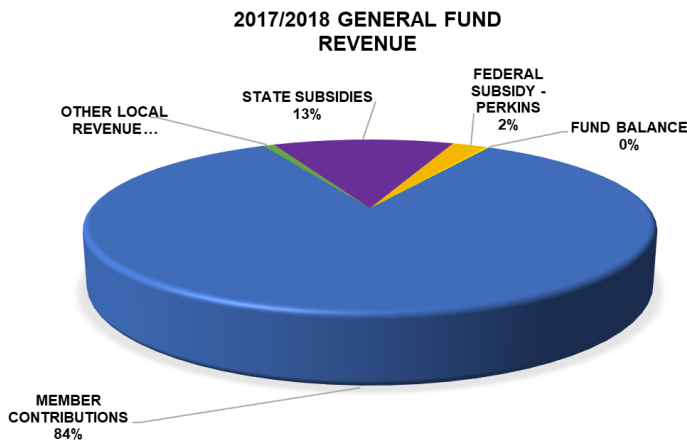
Finance



The Middle Bucks General Fund Budget is designed to reflect the Executive Council's objectives for the education of the students of our school. It is organized and planned to ensure adequate understanding of the financial needs associated with program support and development. The 2017–2018 GF budget of **\$11,064,970** provides funding to support all school operations including ongoing studies of the educational program, estimated annual cost of implementing said program, long range planning for the annual maintenance and replacement of facilities and equipment, salaries, retirement, health insurance, contractual and other statutory benefits, professional and property services, supplies and lease rental.

Middle Bucks also has other budgets that operate independently from the General Fund Budget. These budgets include:

- Adult Education
- Li'l Bucks Partners in Learning Childcare Center
- Production Funds – Live work by students
  - Aspirations
  - Automotive
  - Middle Bucks Dental Clinic
  - Middle Bucks Garden Center
  - Salon Extreme
  - Student Built House
- Student Activity Funds
  - SkillsUSA
  - Future Farmers of America FFA
  - Future Health Professionals HOSA
  - Pennsylvania Builders Association PBA





[www.mbit.org](http://www.mbit.org)

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