

Eastern Center for Arts and Technology 2012-2013 High School Program Offerings

Career Programs

7:45 - 10:30 a.m. OR 12:00 - 2:45 p.m.

Allied Health
Automotive Technology
Collision Repair Technology
Commercial Art
Computer Network Administration
Construction Technology
Cosmetology
Culinary Arts
Electrical Technology
Electronics Engineering Technology
Heating, Ventilation and Air Conditioning
Landscape Contracting
Protective Services
Welding Technology

Penn State College Credit Program – Accounting/Business

Penn State courses are Monday, Wednesday, and Friday from 7:30 to 8:45 a.m., September through May

Students successfully completing these courses will receive 7 Penn State credits in Accounting/Business. Students meet at the Penn State Abington Campus.

Course Number	Course Name
ACCTG 211 (4 PSU credits)	Introductory Financial and Managerial Accounting
MIS 204 (3 PSU credits)	Introduction to Business Information Systems

Mini Enrichment Courses

Approximately 60 minute classes beginning at:
7:45 a.m. 9:25 a.m. 12:00 p.m. 1:30 p.m.

Combination Welding
Electronics and Music
Home Improvement
Landscaping
Photography

Programs at Eastern Center for Arts and Technology

EASTERN is accredited by the Middle States Association of Colleges and Schools. The campus is located in Willow Grove and is owned by nine school districts in Eastern Montgomery County. They include Abington, Bryn Athyn, Cheltenham, Hatboro-Horsham, Jenkintown, Lower Moreland, Springfield, Upper Dublin and Upper Moreland.

More information about EASTERN is available at www.eastech.org.

Programs taken at EASTERN are considered part of the high school program and count as elective credit toward graduation. Programs enrich the student's high school experience. They give students the opportunity to reinforce their career path after high school, get a head start in collegiate studies in that field and get ready for employment. Most of the half-day programs offer advanced placement college credit opportunities for students continuing their education after high school in similar majors. The options include:

A College Credit Penn State courses are Monday, Wednesday, and Friday from 7:30 to 8:45 a.m., September through May, for college bound seniors who are responsible and capable of doing college level work, are self-directed and able to manage their time wisely and are interested in Accounting/Business as a college major. Students must pass the first semester class to be eligible to continue second semester. Students successfully completing these courses will receive 7 Penn State credits in Accounting/Business. Students meet at the Penn State Abington Campus.

A Career programs are scheduled 5 days a week for 2 hours 45 minutes from 7:45 a.m.–10:30 a.m. or 12:00 p.m. to 2:45 p.m. in 14 career areas are primarily offered to 11th and 12th grade students. They are recommended as a two-year sequence for students, except Allied Health, which is a senior-only option. If space is available, one-year seniors are accepted into all programs.

- A work experience program is available to qualified second-year students incorporating on-site job experiences with classroom learning.

- Many programs offer advanced placement/college credit options at colleges like DeVry University, Johnson & Wales University, Penn College of Technology, Lincoln Technical Institute, CHI, Harcum College, and Bucks and Montgomery County Community Colleges.

A Mini Enrichment Courses if approved by the high school for approximately 60 minutes beginning at 7:45 a.m., 9:25 a.m., 12:00 p.m. or 1:30 p.m. Mini courses may include: Combination Welding, Electronics and Music, Home Improvement, Landscaping and Photography if the programs are not filled with career students.

Please note that there are course material fees for tools of the trade and required clothing related to several programs. Families with a financial need should contact Amy Shields, 215-784-4806, or Kevin Reilly at 215-784-4800 X110.

EASTERN CENTER FOR ARTS AND TECHNOLOGY
2012-2013
PROGRAM INFORMATION

Allied Health

Be sure a career in a health field is for you and earn college credit along with way — take Allied Health!

■ This one-year senior-only program is designed for students with rigorous academic preparation who plan to continue their education in college to prepare for a career in the health field. Students will get extensive clinical experiences partnering with health professionals at Abington Memorial Hospital. Three days a week at EASTERN, student course work will include being dually enrolled with Montgomery County Community College which will afford them the opportunity to earn three college credits for Medical Terminology as part of the Allied Health Program.

■ **Career Objectives:**

A career in the allied health field requiring post-secondary education

■ **Prerequisites:**

- Grade of 'C' or better in Algebra I & II, Biology and Chemistry (College Prep Level)
- High school GPA of 2.5 or higher preferred
- Physical exam and police check as mandated by State Law
- Flu shot required
- No disciplinary issues at the participating high school

■ **With higher education, this program prepares the student for success in such career fields as:**

Laboratory or nuclear medicine technician, radiation therapy or radiology technician, cardiovascular and respiratory technology, physical or occupational therapy, nurse practitioner, physician's assistant or nurse

■ **Students have continued their education at:**

ARIA, Abington Dixon School of Nursing, Arcadia, Cedar Crest, Gwynedd Mercy, LaSalle University, MCCC, Moravian, West Chester University and York College.

Materials and fees: Approximately \$300-350

Automotive Technology

Take this program to get a head start in the automotive field!

■ This two-year career program is designed for the student who is serious about working in the automotive industry. Course work will include being dually enrolled with Montgomery County Community College which will afford students the opportunity to earn six college credits as part of the Automotive Technology Program. One-year seniors will be considered if space is available in the program.

■ **Career Objectives:**

Automotive Technician Trainee; New Car Preparation Technician; Under Car Specialist

■ **The curriculum, facility and instructor are:**

- National Institute for Automotive Service Excellence (ASE) certified
- Partners with the Automotive Youth Educational Systems Program (AYES) to provide qualified juniors with experiences at participating dealerships and paid summer internships

■ **Certification Students can earn:**

ASE qualifying exams (after completing a reduced period of work experience in the Automotive Industry), and (SP/2) Safety and Pollution Prevention Certifications.

■ **Students also qualify for advanced standing through an articulation agreement with:**

- Lincoln Technical Institute – up to three courses
- Penn College of Technology - Advanced Placement
- Universal Technical Institute (UTI) for up to four Auto Tech courses

- With higher education, this program prepares the student for success in such career fields as:
Automotive Service, engineering and design, manufacturer representative, automotive insurance industry / damage appraisal and testing, race car development, technical writing, managing and teaching
- Students have continued their education at:
ATC, Lincoln Tech, MCCC, Ohio Technical College, Penn College of Technology, Pennco Tech, Thaddeus Stevens, and UTI

Materials and fees: Approximately \$50 - \$100

Collision Repair Technology

You'll meet industry standards to be a success in this field!

- A student enrolled in this two-year career program benefits from a combination of classroom instruction and hands-on experience needed to carry out repairs on motor vehicles. Students benefit from the use of I-Car (Inter-Industry Conference on Auto Collision Repair) enhanced curriculum. One-year seniors will be considered if space is available in the program.
- Career Objectives:
Automotive Refinisher; Sheet Metal/Cosmetic Repair Person; Frame/Structural Repair Person; Automotive Refinisher's Helper-(one-year students)
- Program Certification
This is one of only seventeen secondary programs in Pennsylvania certified by the National Institute for Automotive Excellence (ASE) for meeting industry standards.
- Certification Students can earn:
Safety and Pollution Prevention (S/P2) Certification; I-CAR points - The Collision Repair Technology is an approved member of the I-CAR Industry Training AllianceSM. With this Alliance certification, EASTERN's Collision Repair Technology students now have the option of earning I-CAR points for training completed while at EASTERN.
- Advanced Placement
Students may qualify for advanced placement college credit at Penn College of Technology
- With higher education, this program prepares the student for success in such career fields as:
Automotive, marine and aeronautic service, new car design, manufacturing representative, insurance industry damage appraisal and testing, race car fabrication and vehicle engineering, metal fabrication, safety design engineering, technical writing, consumer information technologies, collision test engineering and teaching
- Students have continued their education at:
ATC, Lincoln Tech, MCCC, Ohio Technical College, Penn College of Technology, Pennco Tech, and UTI.

Materials and fees: Approximately \$130 - \$175

Commercial Art

You'll develop your own portfolio!

- This two-year career program covers everything from conceptual drawing and design to a professional portfolio; students learn the value and application of their unique styles in both design and illustration; and students use industry standard software on the Macintosh Platform.
Software includes: Adobe InDesign, Adobe Photoshop, Adobe Illustrator, Dreamweaver and Flash. One-year seniors will be considered if space is available.
- Career Objectives:
Graphic Design; Commercial Illustration; Digital Imaging Design
- Upon Completion of the program:
-Students will have a portfolio consisting of items a committee of art college representatives established

-Senior students will have their portfolios reviewed by art school representatives

■ **Advanced Placement:**

Students may qualify for advanced placement college credits at Penn College of Technology

■ **With higher education, this program prepares the student for success in such career fields as:**

Graphic design, illustration, animation, computer-generated graphic art, teaching and multi-media specialist.

■ **Students have continued their education at:**

Antonelli, Art Institute of Philadelphia, Drexel, Fashion Institute of Technology, Hussian, IUP, MCCC, NCCC, Penn College of Technology, Penn State Abington, Temple, Tyler, University of the Arts, University of Massachusetts, and West Chester.

Materials and fees: Approximately \$195 - \$310

Computer Network Administration

Would you like to be a college student while still in high school? While in EASTERN's Computer Network Administration program, you can choose to enroll in Montgomery County Community College for up to 12 transferable credits! More and more businesses need network administrators now. Get your start here!

■ **Students are prepared to take three industry certification exams; Certified Linux Administrator (CLA) and Microsoft Certified Technical Specialist (MCTS).**

■ **Career Objectives:**

Computer Network Administrator, Linux Administrator (one year students)

■ **Prerequisites:**

Strong math background (Algebra II completed or scheduled during the first year of the program)

■ **College Advantages:**

- Dual Enrollment for up to 12 transferable credits at Montgomery County Community College
- Guaranteed admission into Penn State Abington's School of Information Sciences and Technology if they meet PSU criteria
- Advanced placement at Penn College of Technology
- \$1200 scholarship per semester at DeVry University for completing Cisco Semester 1 at EASTERN

■ **Career Fields:**

Computer Network Administrator; Linux Administrator

■ **Students have continued their education at:**

MCCC, Penn State Abington, Penn College of Technology, Temple University, Drexel University, DeVry University, and IUP.

Materials and fees: Approximately \$355 - \$575

Construction Technology

Get satisfaction from building projects and working with current materials used in the field to refine your construction skills!

■ **This two-year career program is the first step for students interested in pursuing a successful career in the construction field. One-year seniors will be considered if space is available in the program.**

■ **Career Objectives:**

Carpenter Pre-Apprentice; Exterior Remodeling and Installation; Roofing & Siding Helper-(one-year students)

■ **Students will work on both residential and commercial construction in the school's shop and at nearby building sites**

■ **Advanced Placement and Apprenticeship**

Students may qualify for advanced placement college credit at Penn College of Technology or want to consider an apprenticeship program after high school

- With higher education, this program prepares the student for success in such career fields as:
Architecture, general contracting, teaching, surveying, construction management, construction technology, civil engineering, architectural engineering, code enforcement and insurance adjustor
- Students have continued their education at:
Delaware State, Kutztown University, MCCC, Penn College of Technology, Penn State Abington, Thaddeus Stevens, and Williamson Trade School.

Materials and fees: Approximately \$85 - \$100

Cosmetology

Save over \$10,000 by taking this program in high school!

- This two-year program will provide the skills necessary to begin a career in the cosmetology field. In Pennsylvania, as well as other states, cosmetologists and nail technicians must be licensed to practice in the field. One-year seniors will be considered if space is available in the program.
- Career Objectives:
Cosmetologist; Nail/Salon Technician-(one-year students)
- Certifications students can earn:
 - First year students at EASTERN are expected to pass the State Board of Cosmetology written performance test required for licensure as a Nail Technician (This is a prerequisite to continuing their studies leading to licensure as a Cosmetologist)
 - Pennsylvania State Board of Cosmetology - licensed cosmetologist
- With higher education, this program prepares the student for success in such areas as:
Cosmetology, management, teaching, product representation, and development and design
- Students have continued their education at:
Ambler Beauty Academy, Bucks County School of Beauty, DeVry University, Empire, IUP, Johnson & Wales University, Kutztown University, Lansdale Beauty School, Make-up Designory School (NYC), Penn State Abington, Temple, and West Chester.

Materials and fees: Approximately \$500 - \$650

Culinary Arts

Build your culinary skills and techniques at EASTERN so you can compete in this field! Students also have the potential to earn up to nine transferrable college credits through a dual enrollment agreement with Montgomery County Community College. Dually enrolled students who successfully complete the two-year coursework can receive up to six credits.

- This two-year half-day program enables students to acquire a variety of skills including soup and sauce preparation, preparation of meat, fish and poultry entrees, baking, kitchen sanitation, purchasing and inventory controls. One-year seniors will be considered if space is available in the program.
- Career Objectives:
Pantry Person; Prep Cook; Cook Apprentice; Kitchen Helper
- Certifications students can earn:
ServSafe Certification
- Culinary students continuing their education in this field can benefit from college credit articulation agreements with:
 - Johnson & Wales University (for up to 13.5 quarter credits)
 - Bucks County Community College (14 quarter credits)
 - Students may also qualify for advanced placement college credit at Penn College of Technology
 - Dual Enrollment with Montgomery County Community College
- With higher education, this program prepares the student for success in such career fields as:
Food and beverage management, purchasing, teaching, food science, food manufacturing, pastry, food styling and retail food management

- Students have continued their education at:
 Art Institute of Philadelphia, Baltimore International Culinary School, Bucks County Community College, Indiana University of PA, Culinary Institute of America, Delaware State University, Delaware Valley College, Drexel, Johnson & Wales University, Millersville University, Montgomery County Community College, Penn State, Culinary Institute of America, Scottsdale Culinary Institute, Temple Ambler, The Restaurant School, and Widener University.

Materials and fees: Approximately \$102 - \$250

Electrical Technology

Our training will provide the essential hands-on and safety skills that a student needs to pursue a rewarding career in the Electrical Construction Industry.

- This two-year multi-faceted career program enables the student to learn the basics of electricity as well as residential and commercial wiring, data cabling and basic fiber optic installation. One-year seniors will be considered if space is available in the program.
- Career Objectives:
 Counter Clerk; Electrician's Helper; Maintenance Helper; Electrician
- Prerequisites:
 -Good color vision
 -Ability to climb moderate heights on a ladder
- Advanced Placement and Apprenticeship:
 Students may also qualify for advanced placement college credit at Penn College of Technology or want to consider an apprenticeship program after high school
- With higher education, this program prepares the student for success in such career fields as:
 Residential or commercial electrician, electrical engineering, teaching, computer systems engineering, communications engineering and development
- Students have continued their education at:
 BCCC, CHI, MCCC, Penn College of Technology, Pennco Tech, Temple, Thaddeus Stevens, and Williamson Trade School.

Materials and fees: Approximately \$90

Electronics Engineering Technology

You'll enjoy the hands-on approach used in this program! Electronics Engineering Technology is also a MCCC dual enrollment program.

- College Credits:
 Students in Electronics Engineering Technology will be dually enrolled at MCCC for four credits in basic Electronics (EGT110) that can also be transferred to most colleges and universities.
- In this two-year career program the hands-on learning makes it easier to understand and be successful. You will learn how to solve technical problems and build electronic and electromechanical circuits. You will also learn how to build a robot and work with fiber optics. If you join our robotics team you have the opportunity to design, build and test robots for various competitions. One-year seniors will be considered if space is available in the program.
- Career Objectives
 Electronics Technician
- Prerequisites
 -The student should have taken, or be concurrently enrolled in Algebra I
 -Academic courses required by colleges should be taken during high school to qualify for college acceptance.
- Advanced Placement
 Students may also qualify for advanced placement college credit at Penn College of Technology, ITT Institute and DeVry University.

- With higher education, this program prepares the student for success in such career fields as:
Telecommunications, data communications, security system design, facility and product management, teaching and electrical engineering
- Students have continued their education at:
DeVry University, Drexel, Johnson C. Smith, MCCC, Penn State Abington, Temple, Widener, University of Pittsburgh, and other colleges and universities.

No costs

Heating, Ventilation and Air Conditioning

There is always a demand for these services!

- This two-year career program provides a comprehensive foundation of the basic theories and principles of heating, air conditioning and heat pump systems. One-year seniors will be considered if space is available in the program.
- Career Objectives:
Heating and Air Conditioning Installation Technician; Heating and Air Conditioning Service Technician; Heating and Air Conditioning Helper-(one-year students)
- Advanced Placement:
Students may also qualify for advanced placement college credit at Penn College of Technology
- With higher education, this program prepares the student for success in such career fields as:
Residential heating, air conditioning, mechanical technology, mechanical engineering, insurance consultant and building maintenance
- Students have continued their education at:
Orleans Tech, Penn College of Technology, Penn State Abington, and Thaddeus Stevens School.

Materials and fees: Approximately \$95 - \$145

Landscape Contracting

If you are an outdoors person you can prepare for a Career in the 'green' industry with this program!

- This two-year half-day program prepares students for one of these fields: landscape contracting, greenhouse management, landscape technical, or arboriculture (tree preservation). Students will maintain school grounds using hand and power tools; design garden areas using drafting equipment and computer aided design (CAD) software; learn how to bid jobs, develop landscape designs for presentation to clients, identify plants, diagnose plant problems, lay pavers, build small ponds and waterfalls, retaining walls and various trees and shrubs. In Arboriculture, student will learn how to climb, prune, diagnose and repair trees according to industry standards. In Greenhouse Management, student will concentrate on the daily tasks of growing and selling various greenhouse plants in a retail setting, as well as the basics of watering, fertilizing, propagation, production and monitoring the plants well-being. One-year seniors or 10th graders will be considered if space is available in the program.
- Career Objectives:
Retail Nursery and Greenhouse Assistant; Landscape foreperson or manager; Grounds keeping foreperson or crew leader; Lawn care or golf course assistant; Arboriculture tree climber.
- Certifications students can earn:
Certified Landscape Contractor through Landscape Contractors of America. Arborist certification from the International Society of Arboriculture.
- Advanced Placement:
Students may qualify for advanced placement college credit at Penn College of Technology
- With higher education, this program prepares the student for success in such green career fields as:
Arboriculture, Horticulture, Landscape Architecture, Landscape Design, and Golf Course Management.

- Students have continued their education at:

CHI, Delaware Valley College, Temple University, and Longwood Gardens.

Materials and fees: Approximately \$95

Protective Services

You'll earn several certifications to give you a head start on careers in this field!

- This two-year career program prepares the student to enter a career related to law enforcement, fire science, industrial safety and security.
One-year seniors will be considered if space is available in the program.
- Career Objectives:
Police; Industrial Security-(one-year students); Fire Fighter; Emergency Radio Dispatch
- Program Prerequisite:
The student must undergo a State Police check to enroll in the program and work in this field
- Certifications students can earn:
-Fire Fighter 1 through testing by Bucks Co. Fire Academy; Hazardous Materials Awareness through testing by Bucks Co. Fire Academy; Hazardous Materials Awareness through testing by Bucks Co. Fire Academy; Adult CPR through testing by the Red Cross; Standard First Aid through testing by the Red Cross; and First Responder Emergency Medical Services.
- With higher education, this program prepares students for success in such career fields as:
Criminal Justice, teaching, fire fighting, security and corrections
- Students have continued their education at:
Alvernia, Bloomsburg University, CHI, CC of Philadelphia, Kutztown University, Lock Haven, Millersville University, MCCC, Penn State Altoona, Point Park, and Shippensburg.

Materials and fees: Approximately \$65 - \$195

Welding Technology

Good welders make good money...learn how at EASTERN!

- This two-year career program is designed for the student who is interested in the industrial engineering field. One-year seniors will be considered if space is available in the program.
- Career Objectives:
Combination Welder; Welder/Fabricator; MIG Welding, Gas Welding & Cutting-(one-year students)
- Students will learn about the properties of different types of metals and how to join them using state-of-the-art welding equipment
- Advanced Placement
Students may also qualify for advanced placement college credit at Penn College of Technology.
- With higher education, this program prepares students for success in such career fields as:
mechanical, aerospace or industrial engineering, physical metallurgist, business owner, teaching, equipment sales and welding engineer.

Materials and fees: Approximately \$260

Penn State Courses

Accounting/Business

Take this course to get a head start on a business major in college!

- This one-year senior only program is taught by Penn State Professors and is designed for the college bound student who has a strong academic background who can handle college level work and who is interested in majoring in business at college. Students attend classes at PSU Abington campus to give them exposure to a college environment.
- Pre or co-requisites:
 - A strong math background is required and accounting or bookkeeping is recommended.
- Course offered from 7:30 to 8:45 a.m. on Monday, Wednesday and Friday. Check with your principal to see if transportation is provided.
- Course content:
 - ACCTG 211, Semester 1, 4 Credits
Introductory Financial and Managerial Accounting – Fundamentals of how financial accounting reports are used by various decision makers and the fundamentals of how accounting information is used by decision makers in an organization.

MIS 204, Semester 2, 3 Credits

Introduction to Business Information Systems – An application oriented course that provides an overview of (1) the role of information systems in business process design; (2) the current technologies used for obtaining, storing, and communicating information in support of operations and decision-making within a business organization; and (3) the concepts and principles for programming, developing, and using popular spreadsheet and database tools. Applications focus on important problems and issues found in business disciplines, including accounting, finance, marketing, supply chain operations, and general management.

- College Credit
 - Students must pass the Fall Semester to continue in the Spring Semester
 - Seven PSU credits will be awarded for successfully completing both semesters
- These courses prepare the student for success in such career fields as accounting, business, marketing, management, economics and finance
- Business/Accounting

Course Number

Course Name

ACCTG 211 (4 PSU credits)

Introductory Financial and Managerial Accounting

MIS 204 (3 PSU credits)

Introduction to Business Information Systems

Students/parents will be solely responsible for tuition and fees for the Penn State Abington programs and MCCC dual enrollment.

For Penn State, the student tuition rate will be 50% of the regular per credit cost, which as of today, is \$495.00 per credit. Through EASTERN, students will pay \$247.50 per credit, along with a technology fee of \$85 each semester. Tuition is subject to change through Penn State, and students will be billed directly by Penn State at the beginning of each semester.

For MCCC, tuition is \$125 per course – regardless of credits per class.

EASTERN CENTER FOR ARTS AND TECHNOLOGY

2012– 2013 MINI ENRICHMENT COURSES

If space is available in the half day program

60 minute classes are offered beginning at:

7:45 a.m. 9:25 a.m. 12:00 p.m. 1:30 p.m.

Combination Welding

Try your hand at joining metals using a variety of welding processes. We will provide the safety gear you provide the interest. Your hand/eye coordination will be put to the test when you practice welding or use the cutting torch. If you are interested in the sciences and engineering, this course will give you the chance to experience ratio and proportion of gas interaction with different metallic properties. A great hands-on experience!

Electronics and Music

If you've been to a rock concert, you have experienced electronics at work! Find out how the professionals use electronic principles to make a successful show by building in class electronic circuits for radios, audio amplifiers, sound generators and light organs. This course is an introduction to a highly technical area.

Home Improvement

You will have step-by-step instructions for common household repairs related to electricity, carpentry and plumbing. You will also learn how to troubleshoot problems that often occur. By the end of the course you will know how to use tools properly and feel confident about doing household repairs.

Landscaping

Introduce yourself to the world of landscaping! You will use hand tools and grounds keeping equipment used by the pros! Planting, fertilizing, mulching and pruning techniques are highlighted, along with Dynascape Design software to help you design attractive landscapes! Work boots required. Please note: There are no afternoon Landscaping courses available.

Photography

Digital photography, advertising photography and professional portraiture are just a few of the skills you will learn in this program. You will experience digital photography and computer photo restoration. There will be on-location and studio assignments with fully equipped commercial studios to use. You must provide your own digital camera.