

# Eastern Center for Arts and Technology 2022-2023 High School Program Offerings

## CAREER PROGRAMS

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

### **Arts, Human Services and Hospitality Career Cluster**

[Commercial Art](#)

[Cosmetology](#)

[Culinary Arts](#)

### **Business, Computer and Public Safety Career Cluster**

[Business and Technology Professional](#)

[Networking and Cybersecurity](#)

[Protective Services](#)

### **Construction Career Cluster**

[Construction Technology](#)

[Electrical Technology](#)

[Heating, Ventilation and Air Conditioning](#)

### **Health Sciences Career Cluster**

[Allied Health](#)

[Exercise Science and Rehabilitation](#)

[Veterinary Science](#)

### **Transportation and Manufacturing Career Cluster**

[Automotive Technology](#)

[Collision Repair Technology](#)

[Robotics and Automated Technology](#)

[Welding Technology](#)

## **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. Districts 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](http://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.

**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 16 career areas and 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 Pennsylvania College of Technology, Harcum College, Universal Technical Institute, and Montgomery County Community College.

***EASTERN students may qualify for up to 12 free college credits through Perkins statewide articulation agreements. All statewide articulation agreements can be found at [www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx](http://www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx)***

***Students/parents will be solely responsible for tuition and fees for MCCC dual enrollment.***

***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 Ferne Andre, 215-784-4800 Ext. 314, or Amy Shields at 215-784-4806.***

**EASTERN CENTER FOR ARTS AND TECHNOLOGY  
2022-2023  
PROGRAM INFORMATION**

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**Arts, Human Services and Hospitality Career Cluster**

**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 how to use industry-standard software on the Macintosh platform. Core software includes Adobe InDesign, Adobe Photoshop and Adobe Illustrator. Upon completion of the program, students will have a portfolio consisting of items for entry into their postsecondary school of choice as well as National Portfolio Day. Senior students will have their portfolios reviewed by art school representatives. One-year seniors will be considered if space is available.

- **Career Pathways:**  
Program prepares students for careers in commercial illustration, image editing and graphic design. With further education and experience, students can find opportunities in occupations such as graphic design, commercial illustration, digital imaging design, animation, computer-generated graphic art, and multi-media specialist.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Fashion Institute of Technology, Full Sail University, Hussian College, IUP, Kutztown University, Marywood University, Montgomery County Community College, Pennsylvania College of Art and Design, Penn State Abington, Temple/Tyler School of Art, University of the Arts and West Chester University.

Students may qualify for advanced placement college credits at Pennsylvania College of Art and Design and Hussian College.

- **Industry Certifications:**  
Students can take the Adobe Certified Associate (ACA) certification exam in Photoshop, Illustrator or InDesign. ACA certification offers students a foundation for success by validating their digital skills.
- **Materials and fees:**  
Approximately \$125 - \$155.

**COSMETOLOGY**

Save thousands of dollars 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 must be licensed to practice in the field. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Program prepares students for a career as a cosmetologist. After obtaining a cosmetology license, graduates can find opportunities in occupations such as a salon, salon management, teaching, product representation, and development and design.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Bucks County Community College, Community College of Philadelphia, and Lansdale School of Cosmetology.
- **Industry Certifications:**  
After completion of 900 hours, students can take the Pennsylvania State Board of Cosmetology licensing exam. When students pass the exam, they will receive their license at the completion the required 1,250 hours.
- **Materials and fees:**  
Approximately \$500 - \$650

## **CULINARY ARTS**

Don't be afraid to take whisks! 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 transferable college credits through a statewide articulation agreement with Montgomery County Community College. 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 Pathways:**  
Program prepares students for entry level employment as a prep cook, cook, or chef. With further education and experience, students can find opportunities in occupations such as food and beverage management, grocery and retail prepared foods, country club food services, cafeteria production and fast food franchise food production.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Bucks County Community College, Culinary Institute of America, Indiana University of PA, Delaware Valley College, Johnson and Wales University, Millersville University, Montgomery County Community College, Penn State, Temple University, Walnut Hill College, and Widener University.

Culinary Arts students continuing their education in this field may also qualify for articulation credit with Montgomery County Community College.

- **Industry Certifications:**  
Students can earn ServSafe Food Handlers certification, which is an entry-level food safety training and certificate program administered by the National Restaurant Association; ServSafe Manager certification, which is required in a food services supervisory role; and S/P2 – Culinary, which is an online certification that teaches safety, sanitation, and career readiness skills.
- **Materials and fees:**  
Approximately \$135 - \$150

## **Business, Computer and Public Safety Career Cluster**

### **BUSINESS AND TECHNOLOGY PROFESSIONAL**

Explore the possibilities of professionalism! Some of the best paying jobs in the U.S. are those that require computer skills, professionalism and communication skills. The Business and Technology Professional program will prepare students for a career in a professional business environment. In this two-year half-day program, students study the current Microsoft Office applications including Word, Excel, PowerPoint, Outlook, and other communications technologies. Students will leave the program well-versed on creating spreadsheets, composing correspondence, managing databases, creating presentations, document management and on the use of office machines. Students will enhance their communication, independent thinking, problem-solving, interpersonal, and soft skills. One-year seniors will be considered if space is available.

- **Career Pathways:**  
Program prepares students for entry level employment as data input specialist, customer service representative and administrative assistant. With further education and experience, students can find opportunities in occupations such as human resources, legal office manager, health records management, accounting clerk and office manager.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Clarion University, Community College of Philadelphia, Johnson and Wales University, Montgomery County Community College, Northampton Community College, Pennsylvania College of Technology and Temple University.

Business and Technology Professional students may participate in dual enrollment with Montgomery County Community College for 9 transferable college credits.

- **Industry Certifications:**  
Students can obtain Microsoft Office Specialist - Word and Excel certifications, and OSHA – General Industry.
- **Materials and fees:**  
Year 1 - approximately \$380; Year 2 – approximately \$190. Fees are subject to change based on MCCC tuition rates. Access to a working computer (Windows) is a must.

### **NETWORKING AND CYBERSECURITY**

Be a college student while still in high school! While in EASTERN's Networking and Cybersecurity program, you can choose to enroll in Montgomery County Community College for up to 12 transferable credits! In this two-year half day program, students must pass the TestOut Windows Server Certification in the first year of the program and are prepared for other industry certification exams. One-year seniors will be considered if space is available in the program. More and more businesses need network administrators now. Get your start here!

- **Career Pathways:**  
Program prepares students for careers in network and systems administration. With further education and experience, students can find opportunities in occupations such as network and computer administrator, computer network support specialist, network engineer and security.

- **Postsecondary/Advanced Placement:**  
Students have continued their education at Montgomery County Community College, Penn State Abington, Pennsylvania College of Technology, Temple University, Drexel University, and IUP.  
Students may participate in dual enrollment for up to 12 transferable college credits at Montgomery County Community College.
- **Industry Certifications:**  
Students can obtain, TestOut Microsoft Server, CompTIA ITF+, CompTIA A+, CompTIA Network +, CompTIA Security +, Cisco CCT, and Cisco CCNA Security Badge.
- **Prerequisites:**  
Strong math background recommended.
- **Materials and fees:**  
Approximately \$400-\$600 per year (includes college tuition and books). Access to a working computer (Windows) is a must.

## **PROTECTIVE SERVICES**

Action, adventure and saving lives! You'll earn several certifications to give you a head start on careers in this field. This two-year half-day class is a multi-disciplined program developed in consultation with a countywide advisory committee of law enforcement, fire science, security professionals and post-secondary institutions. Detailed instruction is provided on leadership, criminal, motor vehicle crash and fire investigation, first responders, security systems, terrorism, firefighting, hazardous materials and emergency communications. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Program prepares students for careers in firefighting, security, emergency medicine, law enforcement, corrections, and Department of Homeland Security. With further education and experience, students are can find opportunities in occupations such as Fire Marshal or fire line officer, police department administrator or police line officer, industrial security administrator, corrections, Emergency Medical Services (EMS), Transportation Security Administration (TSA), or commercial security administrator.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Alvernia University, Bloomsburg University, Community College of Philadelphia, Bucks County Community College, Kutztown University, Lock Haven, Millersville University, Montgomery County Community College, Penn State, Shippensburg University and all branches of the U.S. Military.
- **Industry Certifications:**  
Students can earn Hazardous Materials Awareness and Operations through testing by Bucks County Community College, and CPR, First Aid and AED through testing by the American Red Cross or American Heart Association. Students also earn certificates in the National Incident Management System levels 100, 120c, 200, 235, 240b, 242b, 315, 700, 800, and 907.
- **Materials and fees:** Approximately \$200

## **Construction Career Cluster**

### **CONSTRUCTION TECHNOLOGY**

Lay the foundation for a towering future! 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. Students will work on both residential and commercial construction in the school's lab area. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Program prepares students for entry level employment as carpenter pre-apprentice, exterior remodeling and installation, and roofing and siding. With further education and experience, students can find opportunities in occupations such as general contractor, renovations and remodeling specialist, architect, finish carpenter or specialty contractor.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Montgomery County Community College, Pennsylvania College of Technology, Penn State Abington, Thaddeus Stevens College of Technology and Williamson Trade School.

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

- **Industry Certifications:**  
Students can earn Occupational Safety and Health Administration 10 certification, and S/P2 – Construction, which is an online certification that teaches safety and career readiness skills.
- **Materials and fees:**  
Approximately \$85 - \$100

### **ELECTRICAL TECHNOLOGY**

A world without electricity is hard to imagine! 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 Pathways:**  
Program prepares students for entry level employment as electrician's helper, maintenance helper, or electrician upon completion of the Journeymen's certification. With further education and experience, students can find opportunities in occupations such as residential or commercial electrician, and electrical engineering.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Bucks County Community College, EASTERN's Continuing Education Electrician Program, Montgomery County Community College, Pennsylvania College of Technology, Temple University, Thaddeus Stevens College of Technology and

Williamson Trade School. Students may also qualify for advanced placement college credit at Pennsylvania College of Technology or want to consider an apprenticeship program after high school.

- **Industry Certifications:**  
Students can earn their Occupational Safety and Health Administration 10 certification, Mobile Ladder Safety Articulated Ladder Safety, Single and Extension Ladder Safety, and Step Ladder Safety Training provided by the American Ladder Institute, and S/P2 – Construction, an online certification that teaches safety and career readiness skills.
- **Prerequisites:**  
Students must have good color vision and the ability to climb moderate heights on a ladder.
- **Materials and fees:**  
Approximately \$75

## **HEATING, VENTILATION AND AIR CONDITIONING**

A cool career in a hot industry! Everyone wants to be comfortable in their home or place of business. Maintaining proper cooling and heating are not luxuries – they are necessities. 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 Pathways:**  
Program prepares students for entry level employment as heating and air conditioning installation technician, heating and air conditioning service technician, retail sales, and heating and air conditioning helper. With further education and experience, students can find opportunities in occupations such as residential heating, air conditioning and building maintenance.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Orleans Technical College, Pennsylvania College of Technology, Penn State Abington, and Thaddeus Stevens College of Technology.

Students may also qualify for advanced placement college credit at Pennsylvania College of Technology. Through a college credit articulation agreement with University of Northwestern Ohio, students can earn up to 6 credits for Service and Procedures.

- **Industry Certifications:**  
Students can earn Occupational Safety and Health Administration 10, Tracpipe, Gastite Certification, Environmental Protection Agency Refrigerant Handling, and SP/2 - Construction, which is an online certification that teaches safety and career readiness skills.
- **Materials and fees:**  
Approximately \$95 - \$145



## **Health Sciences Career Cluster**

### **ALLIED HEALTH**

Be sure a career pathway in healthcare is right for you! 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 have the opportunity to explore careers in the healthcare field through job shadowing, guest speakers, and facility tours. Opportunities are dependent upon availability of the clinical sites and speakers. This program offers the potential of earning college credits at Montgomery County Community College at reduced tuition rate. This unique opportunity provides students with a first-hand look at the many healthcare careers available to them.

- **Career Pathways:**  
Students prepare for a career in the health field requiring postsecondary education. With further education and experience, students can find opportunities in occupations such as nurse, radiology technologist, physician's assistant and licensed practical nurse.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Aria Health School of Nursing, Arcadia University, Cedar Crest, Gwynedd Mercy University, Holy Family University, LaSalle University, Montgomery County Community College, Moravian College, West Chester University, York College, and Widener University.

Student can also earn up to 3 transferable credits at Montgomery County Community College through dual enrollment.

- **Industry Certifications:**  
Students can earn CPR, AED, and First Aid Training through the Emergency Care and Safety Institute (ECSI), and Direct Care Staff Training certification from the Pennsylvania Department of Human Services.
- **Prerequisites:**
  - Grade of 'C' or better in Algebra I and II, Biology and Chemistry (College Prep Level)
  - High school GPA of 2.5 or higher
  - Physical exam and police check as mandated by state law
  - Child abuse clearance
  - PPD (tuberculosis skin test)
  - Flu shot required
  - No disciplinary issues at the participating high school
  - Good attendance
- **Materials and fees:**  
Approximately \$350 - \$375 (not including MCCC tuition)

### **EXERCISE SCIENCE AND REHABILITATION**

Turn your love of exercise, training, and wellness into an exciting and lucrative career! EASTERN's newest program, Exercise Science and Rehabilitation, will provide an in-depth look at the many career opportunities in this field, learn how to treat sports-related injuries and provide personal training. This program will involve studying the body under physical stress such as exercise, physical sports, or

occupational therapy. This helps physical therapists, coaches, and trainers ensure the safety and health of their patients and clients. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Whether you choose an entry-level position, earn a bachelor's degree or certification, or continue on to medical school, there's a unique path for everyone in this field. The program will help prepare students for careers in physical therapy, athletic training, personal fitness, and sports medicine. Topics include routine rehabilitation, the roles and responsibilities of rehabilitation providers, anatomy and physiology, nutrition and wellness, and therapeutic techniques.
- **Postsecondary/Advanced Placement:**  
The employment outlook for careers in this field show continued growth. Our goal is to ensure our students are ready for a related postsecondary program or able to confidently enter the field in an entry-level position. Local related postsecondary programs are available at Thomas Jefferson University, Temple University, and Rutgers University.
- **Industry Certifications:**  
Students can potentially earn OSHA Healthcare, CPR/ First Aid, ACSM Certified Personal Trainer, and AMCA Physical Therapy Aide.
- **Materials and fees:**  
Approximately \$100 - \$375

## **VETERINARY SCIENCE**

Turn your love of animals into an exciting career! Veterinary Science provides the opportunity to prepare for careers in the animal care industry and will provide students with a working knowledge of small animal industries. In this two-year half-day program, students will learn to support veterinarians by providing assistance during animal examinations; treatment administration and monitoring; managing animal and related health record information; and how to perform a range of selected practice-related duties. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Program prepares students for entry level employment in pet and pet supply stores, grooming salons, kennel, animal humane societies, farms and ranches. With further education and experience, students can find opportunities in occupations such as veterinary technician, veterinary assistant, and animal research.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Harcum College, Manor College and Delaware Valley University.

Students who successfully complete EASTERN's Veterinary Science program with an average grade of "B" or better may receive 3 credit hours for Harcum College's ACM 101 – Introduction to Animal Center Management.

- **Industry Certifications:**  
Students can earn Occupational Safety and Health Administration 10 – Healthcare.

- Prerequisites:
  - Grade of 'C' or better in Algebra I and II
  - Grade of 'C' or better in Biology or Advanced Science Course (College Prep Level)
  - High school GPA of 2.5 or higher
  - No Animal Allergies
  - No disciplinary issues at the participating high school
  - Good attendance
  
- Materials and fees:  
Approximately \$100 - \$375

## **Transportation and Manufacturing Career Cluster**

### **AUTOMOTIVE TECHNOLOGY**

Fast cars...great jobs! Automotive is a complex and technology-driven industry that is constantly changing. This two-year career program is designed for the student who is serious about working in the automotive industry. One-year seniors will be considered if space is available in the program.

- Career Pathways:  
Program prepares students for entry level employment as automotive technician trainee, maintenance and light repair, and new car prep. With further education and experiences, students can find opportunities in occupations such as automotive service, engineering and design, manufacturer representative, and automotive insurance industry/damage appraisal and testing.
  
- Postsecondary/Advanced Placement:  
Students have continued their education at Automotive Training Center, Lincoln Tech, Ohio Technical College, Pennsylvania College of Technology, Thaddeus Stevens College of Technology, Universal Technical Institute, and University of Northwestern Ohio.

Students have worked at dealerships that offer training/employment of students getting them right into their field. Postsecondary is particularly important if students want to pursue diesel, heavy equipment, racing, powersport or marine.

Students qualify for advanced standing through an articulation agreement with Pennsylvania College of Technology. EASTERN has established college credit articulation programs with Ohio Technical College, Universal Technical Institute, and University of Northwestern Ohio.

- Industry Certifications:  
Students can earn Valvoline Oil, SP/2 in Automotive Service Safety, SP/2 in Automotive Service Pollution Prevention, Resume Building, and Automotive Lift Institute Certification. Students will prepare to sit for the Automotive Series exams in the ASE entry-level certification program. Students are also prepared to sit for the PA State Inspection and PA State Emissions Licenses. Per Pennsylvania State regulations, students must be 18 years old and register at an approved testing facility. Dealerships offer factory certifications to students.
  
- Materials and fees:  
Approximately \$100 - \$150

## **COLLISION REPAIR TECHNOLOGY**

Customize your future! 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 Pathways:**  
Program prepares students for entry level employment as automotive refinisher, sheet metal/cosmetic repair, frame/structural repair, and automotive refinisher's helper. With further education and experience, students can find opportunities in occupations such as automotive manufacturing representative, insurance industry damage appraisal and testing, metal fabrication, safety design engineering, and collision test engineering.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Automotive Training Center, Lincoln Tech, Ohio Technical College, Pennsylvania College of Technology, Universal Technical Institute, and WyoTech.

Students may qualify for advanced placement college credit at Pennsylvania College of Technology. Through a college credit articulation agreement with Ohio Technical College, Collision Repair Technology students can earn up to two Auto Body courses.

- **Industry Certifications:**  
Students can earn PPG Refinishing, 3M Collision Repair, and SP/2, which is an online certification that teaches safety and career readiness skills.
- **Materials and fees:**  
Approximately \$130 - \$175

## **ROBOTICS AND AUTOMATED TECHNOLOGY**

Are you inspired by innovation and new technology? In this this two-year program, you will learn to design and build robotic devices and diagnose and repair state-of-the-art automated equipment. Students will perform activities and obtain knowledge in areas such as electronics, robotics, mechanical systems, fluid power systems, programmable logic controllers, and control systems. One-year seniors will be considered if space is available.

- **Career Pathways:**  
Students prepare for a career in the robotics and automated technology field or prepare for postsecondary education in mechatronics engineering. With further education and experience, students can find opportunities in occupations such as Mechatronics Technician, Mechanical Engineer, Electrical Controls Engineer, and Manufacturing Engineer.
- **Postsecondary/Advanced Placement:**  
Students can continue their education at postsecondary schools such as Montgomery County Community College, Delaware Country Community College, Penn State University, Lehigh University, University of Pennsylvania, Temple University, and Widener University.

- **Industry Certifications:**  
Students can potentially earn OSHA 10-Hour General Industry Manufacturing Certification, and Universal Robotics 32 Hour ANSI/IACET Cobot certification.
- **Materials and fees:**  
Approximately \$75

## **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. Students will learn about the properties of different types of metals and how to join them using state-of-the-art welding equipment. One-year seniors will be considered if space is available in the program.

- **Career Pathways:**  
Program prepares students for entry level employment as combination welder and welding production assistant. With further education and experience, students can find opportunities in occupations such as mechanical, aerospace or industrial engineering, business owner, equipment sales and welding engineer.
- **Postsecondary/Advanced Placement:**  
Students have continued their education at Divers Academy International, Lincoln Tech, Penn College of Technology, and Thaddeus Stevens.  
  
Students may also qualify for advanced placement college credit at Pennsylvania College of Technology.
- **Industry Certifications:**  
Students can earn Occupational Safety and Health Administration 10 and S/P2, and students that meet program task requirements have the opportunity to take the American Welding Society D1.1 qualification test to certify them for welding on structural steel.
- **Materials and fees:**  
Approximately \$260