PROGRAM OVERVIEW

This program provides students with the opportunity to use state-of-the-art equipment to learn the principles of scientific investigation and how they apply to environmental health, forensics, genetic engineering, and medicine. An emphasis is placed on DNA fingerprinting, polymerase chain reaction, microbiology, and immunology. Students leaving this program have the strong foundation necessary to pursue postsecondary and career opportunities in pathology, biomedical engineering, genetics, medical technology, and molecular and cellular biology.

Students explore the principles of biomedical science. By engaging students in dissection, experimental design, and various laboratory skills, they learn concepts of biology and medicine to determine the factors that led to the death of a fictional person.

Students learn about human body systems through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis. Students examine the interactions of human body systems and apply what they know to solve real-world medical cases. Students delve into activities such as designing a prosthetic arm and investigate how to prevent, diagnose, and treat disease.
INSIDE THE INDUSTRY

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>LOCAL WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Technologists &amp; Technicians, all other</td>
<td>$43,120</td>
</tr>
<tr>
<td>Healthcare Practitioners &amp; Technical Workers, all other</td>
<td>$82,870</td>
</tr>
<tr>
<td>Healthcare support worker</td>
<td>$38,850</td>
</tr>
<tr>
<td>Nurse, Other Specialist</td>
<td>$69,170</td>
</tr>
</tbody>
</table>

IS THIS CAREER RIGHT FOR YOU?

- Do you have the ability and interest to study biology, forensics, and technology?
- Would you like to analyze DNA fingerprinting?
- Would you enjoy learning and working in a laboratory science environment?
- Are you curious about scientific investigation?
- Do you enjoy leisure activities that focus on solving crimes and mysteries?

INDUSTRY CERTIFICATIONS:

- OSHA-10
- Employability: Interviewing Skills
- CPR/AED
- First Aid
PROGRAM OVERVIEW

Students who enroll in the Dental Occupations Program learn a variety of skills that will enable them to become a dental assistant, dental laboratory technician, and/or pursue a career as an Expanded Function Dental Assistant (EFDA), or dentist. There is a focus on patient-centered care in support of improving oral health as a key to personal health and well-being. The major areas of study in this program include: dental radiology, oral pathology, chair-side dental assisting, anatomy and physiology, dental materials, sterilization, and dental office business procedures.

Students will be introduced to Dental Anatomy, Dental Charting Systems, Infection Control Procedures, Dental Instruments and Procedures for General Dentistry, Chairsde Assisting Techniques, and Radiology Basics. As students continue in this program, they receive more lectures on advanced dental anatomy, dental software programs, dental specialties, prep for certified dental assisting and radiology Board Exams.
## INSIDE THE INDUSTRY

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>LOCAL WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Assistants</td>
<td>$32,170</td>
</tr>
<tr>
<td>Dental Hygienists</td>
<td>$79,680</td>
</tr>
<tr>
<td>Dental Lab technician</td>
<td>$33,950</td>
</tr>
<tr>
<td>Dentist, Other Specialist</td>
<td>$97,200</td>
</tr>
</tbody>
</table>

## IS THIS CAREER RIGHT FOR YOU?

- ✓ Would you be comfortable working in the dental field?
- ✓ Do you have the ability to successfully study science?
- ✓ Are you personable and friendly?
- ✓ Do you have strong hand-eye coordination?
- ✓ Are you patient and able to do tasks repetitively?

## INDUSTRY CERTIFICATIONS:

- OSHA-10
- Employability: Interviewing Skills
- CPR/AED
- Prepare to obtain State Radiology Certification
- Prepare to obtain Certified Dental Assistant (CDA) Dental Assisting National Board (DANB) certification*

* This program is not accredited by CODA. Graduates will need to work 3500 hours before they are eligible to sit for the exam.
PROGRAM OVERVIEW

The Emergency and Protective Services program offers a comprehensive public safety education to students interested in pursuing a career or volunteering in the emergency medical, law enforcement, fire, security, industrial safety or emergency management services. Students work with protective service professionals to gain first-hand experience in all areas of these exciting professions. Units of study include cadet firefighting, law enforcement, emergency medical services, communications and report writing, public speaking and physical training.
## Inside the Industry

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Local Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Medical Technician &amp; Paramedics</td>
<td>$33,910</td>
</tr>
<tr>
<td>Firefighters</td>
<td>$63,660</td>
</tr>
<tr>
<td>Police and Sheriff’s Patrol Officers</td>
<td>$68,110</td>
</tr>
<tr>
<td>Transit and Railroad Police</td>
<td>$74,030</td>
</tr>
<tr>
<td>Animal Control Workers</td>
<td>$58,990</td>
</tr>
<tr>
<td>Security Guards</td>
<td>$29,680</td>
</tr>
<tr>
<td>Crossing Guards</td>
<td>$29,540</td>
</tr>
<tr>
<td>Transportation Security Screeners</td>
<td>$41,490</td>
</tr>
</tbody>
</table>

### Industry Certifications:
- OSHA-10
- Employability: Interviewing Skills
- American Heart Association CPR/AED
- American Heart Association First Aid
- National Emergency Responder Certification
- National Incident Management Systems Certification (NIMS 100, 200, 700 & 800)
- Hazardous Materials for First Responder Awareness Certificate (HAZMAT)
- Cadet Firefighter Certificate
- Pennsylvania Emergency Medical Responder

### Is This Career Right for You?

- Do you feel like you work well under pressure?
- Do you like helping people?
- Are you a good problem solver?
- Can you work with individuals and groups?
- Do you see yourself working in a protective field such as law enforcement, security, emergency rescue, or fire safety?
PROGRAM OVERVIEW

This program provides both a theoretical and lab component and is designed for those students whose career objective includes college and a career within the Sports Medicine, Athletic Training, Physical Therapy, Occupational Therapy, Exercise Physiology, Fitness Training, and/or Nutrition fields. Program graduates are prepared to pursue postsecondary education, while developing a foundation of technical knowledge.
INSIDE THE INDUSTRY

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<tr>
<td>Occupational Therapy Aides</td>
<td>$32,580</td>
</tr>
<tr>
<td>Personal Trainer</td>
<td>$46,250</td>
</tr>
<tr>
<td>Athletic Trainer</td>
<td>$46,150</td>
</tr>
<tr>
<td>Physical Therapist</td>
<td>$84,620</td>
</tr>
</tbody>
</table>

IS THIS CAREER RIGHT FOR YOU?

- Are you interested in fitness and athletic activities?
- Do you like learning about the human body?
- Are you personable?
- Do you like learning about anatomy and nutrition?
- Are you patient?

INDUSTRY CERTIFICATIONS:

- OSHA-10
- Employability: Interviewing Skills
- American Heart Association-Basic Life Support (CPR/AED)
- AMCA-Physical Therapy Aide Certification.
- National Academy of Sports Medicine—Certified Personal Trainer
**HEALTH SCIENCES**
CIP: 51.9999

**PROGRAM OVERVIEW**
This is a healthcare career exploration program culminating with the opportunity to choose a Medical Assistant or Patient Care Technician pathway. The Health Sciences curriculum is a foundation for all health career pathways in which students may choose to train for a Medical Assistant certification or Patient Care Technician certification.

Medical Assistants work in the offices of physicians, podiatrists, chiropractors, and other health practitioners. They assist physicians and nurses, communicate with patients, take patient history, manage online medical records, measure vital signs, give injections, schedule appointments and administer blood tests.

Patient Care Technicians work primarily in a hospital setting. They assist nurses and other team members in providing care to the acute patient. They assist patients with activities of daily living, taking vital signs, and administering blood tests.
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IS THIS CAREER RIGHT FOR YOU?

- Do you want to help and care for others?
- Are you adaptable?
- Are you good with people?
- Are you interested in the healthcare field?
- Can you accurately manage several tasks at the same time?

INDUSTRY CERTIFICATIONS:

- First Aid
- CPR
- Direct Patient Care Provider
- OSHA-10
- Employability: Interviewing Skills
- Medical Assistant Certification (MAC)
- Patient Care Technician Certification (PCTC)
PROGRAM OVERVIEW

This program provides students with the opportunity to participate in clinical rotations at their assigned hospitals. They work and observe alongside doctors and nurses while visiting patient rooms. The students observe many health care professionals in most departments or units of the hospital to learn how each contributes to caring for patients. Students typically observe in the following departments: Pharmacy, ICU, OR, ER, Lab, PT/OT and all nursing units. This year-long program is offered at seven different area hospitals.

Students benefit from career-based presentations from an array of healthcare professionals including nurses, physicians, physician assistants, physical therapists, medical technologists and pharmacists.

The curriculum includes anatomy, physiology, pathophysiology, medical terminology, safety, infection control and medical law and ethics. Students graduate from the program with a solid understanding of the integral relations of the hospital team and a vision of their potential role in the healthcare industry.
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### Industry Certifications:
- OSHA-10
- Employability: Interviewing Skills
- AHA BLS Provider CPR and AED
- AHA Heartsaver First Aid

### IS THIS CAREER RIGHT FOR YOU?

- Do you have the interest and ability to study science-related courses?
- Would you be comfortable working in a hospital or healthcare facility?
- Are you adaptable?
- Can you think and make decisions quickly?
- Do you enjoy working with people?