

# Health Careers

[www.hacc.edu/healthcareers](http://www.hacc.edu/healthcareers)



Is a health career  
for you?

**Fall 2018**



**YOURS.**

**Cardiovascular Technology (CVT) – Cardiac**

**Sonography, Invasive CVT, Vascular  
Sonography, Pediatric Cardiac  
Sonography**

**CPR, BLS, ACLS, PALS, AED, First Aid**

**Dental Assisting & Dental Hygiene & Expanded  
Function Dental Assistant (EFDA)**

**Diagnostic Medical Sonography (DMS)**

**EMT & Paramedic**

**Gerontology**

**Health Care Management**

**Health Science**

**Human Services / Social Services**

**Massage Therapy**

**Medical Assisting / Physician Office Assistant**

**Medical Billing & Coding**

**Medical Laboratory Technician**

**Nursing - RN & LPN & Re-entry &  
Pre-Hospital RN, Nurse Aide**

**Personal Care Home Administrator**

**Pharmacy Tech**

**Phlebotomy**

**Pre-Health Professions**

**Radiology Informatics**

**Radiologic Technology (X-ray) & CT**

**Reflexology**

**Respiratory Therapy**

**Surgical Technology**

**Wellness & Health Promotion**

**Thank you for your interest in the health career programs at HACC, Central Pennsylvania's Community College.** We offer over 30 health career programs (credit and noncredit) at our Gettysburg, Harrisburg, Lancaster, Lebanon and York campuses. For your convenience, the pre-clinical (general education/prerequisite) courses are often offered during the evening and weekends, as well as during the day, and at all five campuses, on-line and other off-campus sites.

**Health career programs at HACC are selective and competitive enrollment programs.** All health career students are initially enrolled at HACC as *pre-clinical* students (i.e. Pre-Nursing, Pre-Respiratory, etc.) and must apply for the clinical phase of the program after completing minimum admission criteria (consult with your advisor and refer to Health Careers web pages). ***Admission to the college doesn't guarantee admission to the clinical component of the program.***

*Clinical* students are those who have been officially selected and admitted to the program and are taking program theory and clinical coursework (NURS, RADT, RESP, etc. designation).

- These are selective admission professional programs. **Admission into the college does *not* guarantee admission into the clinical phase of the program. Talk to your advisor – don't self-advise! See the Health Careers website ([www.hacc.edu/healthcareers](http://www.hacc.edu/healthcareers)) for specific admission criteria for all programs.**
- **You can take the pre-clinical (general education/supporting courses) at any time and at any HACC location (or online) that suits your schedule.** The clinical/core component of the programs is taken only at a campus specified in the program description.
- **On the Health Careers website, review the program essential qualifications and admissions criteria. We recommend that you do this right away. Essential qualifications are conditions of admission to and continuation in clinicals.**
- **SHADOW!** Unsure about what career is right for you? We encourage you to arrange a shadowing experience or attend a hospital open house. (Some programs require job shadowing—refer to Admission Criteria for details). A schedule of planned events is listed on our web page at [www.hacc.edu/healthcareers](http://www.hacc.edu/healthcareers) - Information Sessions.
- Submission of **PA Child Abuse History Clearance, State Police Criminal Record Check, FBI check and drug and alcohol screening** required (at the student's expense) for entrance to (upon acceptance to clinicals) and continuation in the program's clinical component. Students with criminal backgrounds interested in admission into the clinical portion of any health career program at HACC must follow the Prohibitive Offense Procedure for Health Career Programs.
  - **Students are expected to be honest in all their academic endeavors.** The College views academic dishonesty as a serious breach of conduct. Any verifiable act of dishonesty will result in the removal of the student from the clinical program. The student will not be allowed to return to the program at HACC.
- **Want a great source of career information?** The Career InfoNet ([www.acinet.org](http://www.acinet.org)) is a wonderful source of information about careers. The site includes videos, salary statistics, educational requirements, and employment outlook for many healthcare careers.

**HACC, Central Pennsylvania's Community College, is accredited by The Commission on Higher Education of the Middle States Association of Colleges and Schools.**



**MIDDLE STATES COMMISSION ON HIGHER EDUCATION**  
3624 Market Street, Philadelphia, PA 19104-2680. Tel: 267-284-5000. Fax: 215-662-5501  
[www.msche.org](http://www.msche.org)

HACC does not discriminate in employment, student admissions, and student services on the basis of race, color, religion, age, political affiliation or belief, sex, national origin, ancestry, disability, place of birth, General Education Development Certification (GED), marital status, sexual orientation, gender identity or expression, veteran status, genetic history/information or any other legally protected classification.



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Where possible, employment statistics are from the US Department of Labor, Bureau of Labor Statistics (BLS) current Occupational Outlook Handbook. Salary statistics are from the BLS for PA or from [www.Salary.com](http://www.Salary.com). Salaries updated June 2017.

# HOW DO I GET STARTED?

## CREDIT PROGRAMS - Who May Apply

HACC, Central Pennsylvania's Community College, fulfills its mission of open access by granting admission to all those who complete an application; have a high school diploma or equivalent; are 18 years or older; and have the ability, in the judgment of the College, to benefit from the educational program to be pursued. Students who do not meet these criteria may be admitted under special circumstances.

**BEFORE APPLYING** – Check program **Essential Qualifications** and program **Admissions Criteria** on the [Health Careers website](http://www.hacc.edu/healthcareers). (www.hacc.edu/healthcareers) **Health Career programs are selective and competitive. Admission to the college does not guarantee admission to the clinical/core phase of the program.**

You will be admitted as a pre-program student, and will work with your advisor (usually the program director) to apply to the clinical/core component of the program. Your acceptance letter will explain how to find your advisor along with additional information.

## CREDIT PROGRAMS - Step By Step Guide for New Students at all HACC locations

- STEP 1:** Apply ONLINE at hacc.edu, Future Students, [Apply for Admissions](#). Choose First Time, Transfer or Returning Student Application.
- STEP 2:** Apply for Financial Aid. Visit [www.hacc.edu](http://www.hacc.edu), \$ Paying for School, for information about completing the FAFSA and other materials. [Veterans Benefits](#)
- STEP 3:** Request any required transcripts immediately (high school and college). Send **high school** transcripts to:  
HACC  
Admissions Office, H122  
One HACC Drive  
Harrisburg, PA 17110  
Request **College** Transcripts be sent to: (Same as above, but office is Registrar, TL105)  
Once your college transcripts have been evaluated, you will receive a letter from the Records Office informing you of what has been accepted for transfer.
- STEP 4:** You will receive two emails within 24 hours after submitting your application that will contain your HACC ID # and specific instructions on how to set up your HawkMail email address, taking placement tests and scheduling New Student Orientation. You will also receive hard copies of these letters in the mail within two weeks from submitting your application.

**For further information regarding CREDIT Admissions, please contact an admissions counselor:**

Gettysburg	717-339-3514	Lebanon	717-270-6306
Lancaster	717-358-2991	Harrisburg	717-780-1132
York	717-801-3237	Virtual	717-780-2347

**Or call (800) 222-4222**

**The accepted time limit for science courses (HACC or transfer) for use in health career program requirements is 7 years.**

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

## WORKFORCE - NONCREDIT HEALTHCARE - PROGRAMS – Enrollment/Registration

To register for noncredit classes use one of the following methods:

- In person at any campus Welcome Center
- By phone – call the registration office – 717-780-2414
- Online – [www.hacc.edu](http://www.hacc.edu)

Registration fee is due at the time of registration and can be paid with a credit card.

## NONCREDIT PROGRAM COURSE LISTINGS AND COMPLETE REGISTRATION INFORMATION:

[www.hacc.edu](http://www.hacc.edu) - select **Continuing Education** - either **Public Safety Training** or **Healthcare – Noncredit Courses**  
**Veterans Education Benefits:** Non-credit Healthcare Programs which result in a certificate upon completion are approved for veterans' education benefits. VA benefits are based on the length of the class and the number of clock hours per week. Benefits are determined by the Department of Veterans Affairs. Tuition must be paid in advance since VA benefits are disbursed on a post-payment basis. Information on veterans' education benefits is available from the [Military and Veterans Affairs Office](#) 717-736-4149 or e-mail [vaoffice@hacc.edu](mailto:vaoffice@hacc.edu) or on the web – [www.hacc.edu](http://www.hacc.edu) – select \$ Paying For School – Can I Get Financial Aid – [Veterans Benefits](#).

**Health career programs at HACC are selective and competitive enrollment programs.** All health career students are initially enrolled at HACC as *pre-clinical* students (i.e. Pre-Nursing, Pre-Respiratory, etc.) and must apply for the clinical phase of the program after completing minimum admission criteria (consult with your advisor and refer to Health Careers web pages). ***Admission to the college doesn't guarantee admission to the clinical component of the program.***

See **Admission Criteria** on the Health Careers website – **[www.hacc.edu/healthcareers](http://www.hacc.edu/healthcareers)** - for specifics for each program

**ADDITIONAL REQUIREMENTS PRIOR TO STARTING THE CLINICAL PORTION OF A HEALTH CAREER PROGRAM (after acceptance in to clinicals)**

Additional information and required forms will be provided to you upon acceptance into clinicals. Failure to provide all the necessary documentation before the established deadline could lead to denial of admission into the clinical program.

The following requirements must be completed (at the student's expense) after being selected for, but prior to starting the clinical portion of the program (and after the first year in the program): physical examination and immunizations, background checks, drug and alcohol screens and CPR certification. The student should consider these factors before enrolling. If the student has any questions regarding this, he or she should contact the program director.

No student will be admitted with a disqualifying result or failure to meet the specified deadline.

Students with criminal backgrounds interested in admission into the clinical portion of any health career program at HACC must follow the Prohibitive Offense Procedure for Health Career Programs.

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

**Other frequently requested contact information**

Nurse Aide – [natp@hacc.edu](mailto:natp@hacc.edu)

EMT/CPR Classes - 717-780-2458

Massage Therapy program - 717-221-1386 or to Book a Massage - 717-221-1317

PHRN (Pre-Hospital RN) - 717-780-2618

Dental Treatment Facility-Harrisburg Campus-Select Medical Bldg Rm 102 - for appointments - 717-780-2441

Financial Aid - 800-222-4222

Records (transcript evaluation) - 717-780-2373

Student Accounts - 800-222-4222

## Summary of Health Career Programs at HACC

You can take the pre-clinical (general education/supporting courses) at any time and at any HACC location that suits your schedule. The clinical/core component of the programs is taken only at a campus specified below.

Program	Harris burg	Lanca ster	Gettys burg	Leba non	York	*Clinicals Can be Done Part-Time/ Eves
<b>DIPLOMA PROGRAMS</b>						
Gerontology – 17 credits	<b>ONLINE ONLY</b>					No clinicals
<b>CERTIFICATE PROGRAMS</b>						
Dental Assistant – 39 credits	<b>X</b>					
Gerontology – 30 credits	<b>ONLINE ONLY</b>					No clinicals
Medical Assistant – 37 credits	<b>X</b>					Externship required – 6 wks FT days
Paramedic – 33 credits	<b>X</b>					
Practical Nurse – 43 credits	<b>X</b>	<b>X</b>				
<b>CAREER ASSOCIATE DEGREE PROGRAMS</b>						
Cardiac Sonographer (Echocardiographer) – 70 credits Pediatric – 14 credits (Lancaster & online) Vascular – 12 credits (Lancaster & online)		<b>X</b> <b>X</b> <b>X</b>				
Cardiovascular Technologist – Invasive – 71 credits		<b>X</b>				
Dental Hygienist – 80 credits	<b>X</b>					
Diagnostic Medical Sonographer – 69 credits	<b>X</b>					
Gerontology – 61 credits	<b>ONLINE ONLY</b>					No clinicals
Health Science – 62 credits	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	No clinicals
Human Services - 60 credits	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	255 hour practicum
Medical Laboratory Technician – 67 credits	<b>X</b>					
Nursing– 68 credits	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b> (Hbg,Lanc,York)
Radiologic Technologist – 80 credits CT & Mammography – 12 credits		<b>X</b>				
Radiology Informatics – 69 credits		<b>X</b>				
Respiratory Therapist – 71 credits	<b>X</b>					
Surgical Technologist – 61 credits	<b>X</b>					
Wellness and Health Promotion- 60 credits	<b>ONLINE ONLY</b>					No clinicals
<b>TRANSFER ASSOCIATE DEGREE PROGRAMS</b>						
Pre Health Professions – 61 credits	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	No clinicals
Social Services – 63 credits	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	255 hour practicum
<b>WORKFORCE DEVELOPMENT / NONCREDIT</b>						
Emergency Medical Responder – 72 hours	<b>X</b>					No clinicals
EMS Academy 550 hours – 14 weeks						
EMT – 220 hours (required for credit paramedic)	<b>X</b>				<b>X</b>	No clinicals
EMT - ADVANCED						
Massage Therapist – 900 hours (7 mos FT; 1 yr PT)	<b>X</b>					<b>X</b>
Medical Billing & Coding Specialist– 240 hours (10 mos PT)	<b>X</b>	<b>X</b>		<b>X</b>		No clinicals
Nurse Aide (CNA)–120 hours (17-18 days or 21-29 eves)	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b> (times vary)
Nurse (RN/LPN) Reactivation – 208 hours (8 weeks)	<b>X</b>					<b>X</b>
Nurse (RN/LPN) Refresher – 136 hours (6 weeks)	<b>X</b>					No clinicals
Personal Care Home Administrator - 100 hours (PT eves & Saturdays)	<b>X</b>					<b>X</b>
Pharmacy Technician – 114 hours (6 mos eves)	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>
Phlebotomy Technician – 180 hours (7 wks FT days/17 wks PT evenings)	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b> (clinicals can be daytime or evening)
Physician Office Assistant - 332 hours (12 wks FT days)	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	Clinicals are daytime
Pre-Hospital RN (PHRN) (for RNs)-192 hours (24 weeks)	<b>X</b>					<b>X</b> (144 hours at student's convenience)
Reflexologist - 112 hours (PT weekends)	<b>X</b>					No clinicals

## CARDIAC SONOGRAPHER (Echocardiographer)

Associate Degree - Lancaster

**Description of Occupation** - A cardiac sonographer is a highly specialized and knowledgeable health care professional who is educated and trained to perform diagnostic and imaging procedures at the request of the physician to evaluate, diagnose, and treat patients with cardiac disease. The cardiac sonographer utilizes ultrasound equipment that transmits sound waves and then collects echoes to form an image on a viewing screen. The cardiac sonographer must be proficient in different ultrasound modalities including M-mode, 2-Dimensional, Spectral Doppler, and Color Doppler imaging. Credentials held by registered cardiac sonographers include RDCS and RCS.

The cardiac sonographer requires specialized technical skills, critical thinking and problem solving ability, and medical knowledge including anatomy, physiology, and pathophysiology to render quality patient care; must be able to correlate related patient data, apply physics principles in order to obtain optimal images for rendering a diagnosis, and develop differential diagnoses based on patient history and examination findings.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-invasive CVT student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The cardiac sonography program is 63 credits with the awarding of an Associate in Science Degree upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The Cardiovascular Technology program has many clinical affiliates. While laboratory classes are held at the Lancaster campus it is expected that the students have their own transportation to attend field trips and a clinical rotation (which could be - rarely - up to 90 miles from the Lancaster campus). Graduates are eligible to sit for one of two exams - Registered Diagnostic Cardiac Sonographer (RDCS) through the American Registry for Diagnostic Medical Sonography (ARDMS), or Registered Cardiac Sonographer (RCS) through Cardiovascular Credentialing International (CCI). The CVT program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The program goal is to prepare competent entry-level cardiovascular technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for adult echocardiography.

**Outlook** - As imaging technology evolves, medical facilities will use it to replace more invasive, costly procedures.

**Salary Ranges for Geographical Area** - \$69,798 median salary for echocardiograph technicians in Lancaster (using zip 17602) in Jan 2018 – Salary.com

**Related Websites For Additional Information About The Career**

[www.acinet.org](http://www.acinet.org) [www.asecho.org/](http://www.asecho.org/) [www.acp-online.org](http://www.acp-online.org) [www.ultrasoundcareers.org/](http://www.ultrasoundcareers.org/)  
[www.sdms.org/](http://www.sdms.org/) [www.ardms.org](http://www.ardms.org)

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

### CARDIOVASCULAR TECHNOLOGY: CARDIAC SONOGRAPHY (Echocardiography) Associate in Science (#353P)

#### PROGRAM REQUIREMENTS (TOTAL CREDITS = 63)

General Education	Major	Other Required Courses
ENGL 101 English Composition I	CVT 219 Intro to Ultrasnd Img Sys	BIOL 121 Anatomy & Physiology I
ENGL 102 English Composition II	CVT 220 Intro to Cardiac Sonography	BIOL 122 Anatomy & Physiology II
COMM 101 Effective Speaking <u>or</u>	CVT 221 Cardiac Pathophy & Echo Concepts I	MATH 111 Principles of Math
COMM 203 Interpers Communic	CVT 222 Cardiac Son Phys & Instrum	CVT 100 Found of Card Med (FYS)
Humanities/Arts elective	CVT 223 Cardiac Pathophy & Echo Concepts I	CVT 101 Intro to CVT
Social/Behavioral Science elective	CVT 224 Cardiac Son Clinical I	CVT 102 CVT Lab
Wellness	CVT 226 Cardiac Hemodynamics	CVT 103 Cardiovascular Clinical
	CVT 228 Cardiac Son Clinical II	
	CVT 230 Intro to Pediatric Echo.	
8/17		<i>A C or higher is required in BIOL 121, 122 &amp; all CVT courses</i>

Program specific courses:

CVT 100, 101, 102 must be taken before applying to clinical phase of CVT program

<u>Spring I</u>	<u>Summer I</u>	<u>Fall I</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer II</u>
*CVT 100	*CVT 103	CVT 221	CVT 219	CVT 224	CVT 228
*CVT 101		CVT 222	CVT 220	CVT 226	CVT 230
*CVT 102			CVT 223		

The complete program is available at the Lancaster Campus. Prerequisites offered at all other campuses and on-line.

### Pediatric Cardiac Sonography

The Cardiovascular Technology program offers courses in adult congenital and pediatric cardiac sonography. Three of the courses are offered as blended, face to face, and hands on laboratory instruction. One course is a clinical education course offered in a pediatric lab. If you are interested in this program – select the Health Science degree as your major.

The courses will prepare the cardiac sonographer for the American Registry for Diagnostic Medical Sonographers (ARDMS-RDCS/PE Exam) or Cardiovascular Credentialing International (CCI-RCCS Exam) and can be taken together or individually based on student preference.

*These courses are restricted to students who possess a primary certification from an approved medical imaging board (ARDMS, CCI).*



#### Spring Semester

CVT 231 – Concepts in Adult CHD – 4 credits  
CVT 232 – Pediatric Clinical Rotation – 4 credits

#### Fall Semester

CVT 233 – Pediatric and Hemodynamic Assessment – 4 credits (3 lecture and 1 lab)

#### Summer Semester

CVT 234 – Pediatric Surgical and Specialty Procedures – 2 credits (lecture only)

**For additional information or to get started contact [Kristy Werkheiser](mailto:kjwerkhe@hacc.edu), [kjwerkhe@hacc.edu](mailto:kjwerkhe@hacc.edu), 717-358-2872**

### **Vascular Sonography**

The Cardiovascular Technology program offers courses in vascular sonography. The four courses are offered as blended, face to face, and hands on laboratory instruction. If you are interested in this program – select the Health Science degree as your major.

The courses will prepare cardiac and diagnostic medical sonographers for the American Registry for Diagnostic Medical Sonographers (ARDMS-RVT Exam) or Cardiovascular Credentialing International (CCI-RVS Exam) and can be taken together or individually based on student preference.

**Students must be registered in one of the following credentials. (RDMS, RDCS, or RCS) in order to register for the courses.**

#### Spring semester 1

CVAS – 235 - Introduction to vascular Sonography 3 credits

#### Fall semester 2

CVAS – 236 – Concepts in Vascular Ultrasound 3 credits

CVAS – 237 – Vascular Hemodynamics and Doppler Physics 4 credits

#### Spring semester 3

CVAS – 238 – Vascular Specialty 2 credits

**For additional information or to get started contact [Kristy Werkheiser](mailto:kjwerkhe@hacc.edu), [kjwerkhe@hacc.edu](mailto:kjwerkhe@hacc.edu), 717-358-2872**

### **CARDIOVASCULAR TECHNOLOGIST - INVASIVE**

Associate Degree - Lancaster

**Description of Occupation** - An invasive cardiovascular technologist is a highly specialized and knowledgeable health care professional who is educated and trained to perform invasive diagnostic and therapeutic procedures under the direction of the physician to evaluate, diagnose, and treat patients with cardiac disease.

The cardiology technologist assists the physician with invasive procedures in which a small tube, or catheter, is wound through a patient's blood vessel from a spot on the leg into the heart. This is done to determine if a blockage exists and for other diagnostic purposes. RCIS is the credential held by a nationally registered cardiology technologist.

The cardiology technologist requires specialized technical skills, critical thinking and problem solving ability, and medical knowledge including anatomy, physiology, and pathophysiology to render quality patient care; must be able to correlate related patient data, apply physics principles in order to obtain optimal images for rendering a diagnosis, and develop differential diagnoses based on patient history and examination findings.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-invasive CVT student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The invasive cardiovascular technology program is 66 credits with the awarding of an Associate in Science Degree upon successful completion. The Cardiovascular Technology program has many clinical affiliates. While laboratory classes are held at the Lancaster campus it is expected that the students have their own transportation to attend field trips and a clinical rotation (which could be - rarely - up to 90 miles from the Lancaster campus). Graduates are eligible to sit for the RCIS Registered Cardiovascular Invasive Specialist through Cardiovascular Credentialing International (CCI). The CVT program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The program goal is to prepare competent entry-level cardiovascular technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for invasive cardiovascular technology.

**Outlook** - As imaging technology evolves, medical facilities will use it to replace more invasive, costly procedures.

**Salary Ranges for Geographical Area** - \$66,571 median salary in Lancaster (using zip 17602) from [www.salary.com](http://www.salary.com) in Jan 2018 for Cardiac Catheterization Technologist.

#### **Related Websites For Additional Information About The Career**

[www.acinet.org](http://www.acinet.org) [www.ama-assn.org](http://www.ama-assn.org) [www.acp-online.org](http://www.acp-online.org) [www.sicp.com/](http://www.sicp.com/)

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**



## INVASIVE CARDIOVASCULAR TECHNOLOGY (#351P), Associate in Science Degree – NEW FALL 2018

### PROGRAM REQUIREMENTS (TOTAL CREDITS = 66)

General Education		Major		Other Required Courses	
ENGL 101 English Composition I	3	CVT 200 Cardiac Pathophysiology	4	BIOL 121 Anatomy & Physiology I	4
ENGL 102 English Composition II	3	CVT 210 Intro to Invasive CVT	3	BIOL 122 Anatomy & Physiology II	4
COMM 101 Effective Speaking <u>or</u>	3	CVT 211 Radiation Safety/Invasive Instrumentation	2	MATH 111 Principles of Math	3
COMM 203 Interpers Communic		CVT 212 Invasive Hemodynamic Assessment	3	CVT 100 Found of Cardio Med (FYS)	3
Humanities/Arts elective	3	CVT 213 Invasive Instrumentation Lab	2	CVT 101 Intro to CVT	3
Social/Behavioral Science elective	3	CVT 214 Interventional Cardiac Practices	4	CVT 102 CVT Lab	1
Wellness	1	CVT 215 Invasive Cardiovascular Clinical I	4	CVT 103 Cardiovascular Clinical	2
	16	CVT 216 Congenital Heart Disease	1		50
		CVT 217 Invasive Cardiovascular Clinical II	5	<b>"C" or better is required in all courses</b>	
		CVT 218 Cardiovascular Pharmacology	2		8/17

The complete program is available at the Lancaster Campus. Prerequisites offered at all other campuses and on-line.

### Program Specific Courses

\* CVT 100, 101, 102 must be taken before applying to clinical phase of CVT program

Spring I	Summer I	Fall I	Spring II	Summer II	Fall II
*CVT 100	*CVT 103	CVT 200	CVT 210	CVT 214	CVT 216
*CVT 101		CVT 218	CVT 211	CVT 215	CVT 217
*CVT 102			CVT 212		
			CVT 213		8/17

## Continuing Education for Health Care Professionals - Noncredit Courses

<http://www.hacc.edu/HealthCareers> - select Programs Offered – Noncredit Healthcare & EMS

### Training available in many healthcare areas including:

- Continuing Education for Healthcare Providers
- IV Therapy
- RN & LPN Re-Entry & Reactivation
- Spanish for Healthcare Providers
- AND MORE!!!!

Contact [nchealth@hacc.edu](mailto:nchealth@hacc.edu)

### The following EMS courses/programs are offered:

- BLS / ACLS / PALS
- Critical Care Emergency Medical Transport
- First Aid / CPR / AED
- International Trauma Life Support Provider and Renewal
- Pre-Hospital RN (PHRN)
- AND MORE!!!!

Contact [EMStrng@hacc.edu](mailto:EMStrng@hacc.edu) 717-780-2458

## DENTAL ASSISTANT

Certificate - Harrisburg

**Description of Occupation** – A dental assistant is a patient advocate that must possess good communication skills, be able to evaluate the needs and desires of the patient, and have a high knowledge of dental terminology, dental procedures and oral anatomy. Responsibilities of the dental assistant may include: laboratory procedures, obtaining and pouring impressions for study models; making athletic mouth guards, bleaching trays, custom trays and temporary crowns; develop and practice sterilization techniques and procedures; chairside assisting skills which include evacuation, passing and receiving instruments, mixing and passing dental materials; giving oral hygiene instruction; perform radiographic procedures – expose, process, mount and identify; and perform office practice management tasks- telephone techniques, scheduling appointments, and knowledge of insurance procedures. Many procedures performed may expose the dental assistant to bloodborne pathogens, potentially hazardous materials and ionizing radiation.

The dental assistant greatly increases the efficiency of the dentist and is a very valuable member of the dental team.

**Program Admission Criteria** - Admission to the college doesn't guarantee admission to the clinical component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The dental assistant program is 40 credits in length and the awarding of a certificate upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is available only at the Harrisburg Campus. Other required courses offered at other campuses and sites. Graduates are eligible to immediately sit for the Dental Assisting National Board (DANB) examination. A majority of other states require dental assistants to be DANB certified (CDA) or state registered. Many of the states that require state registration will accept DANB results. Graduates are eligible to continue for another 6 credits in Expanded Function. The program is accredited by the *Commission on Dental Accreditation of the American Dental Association (CODA)*.

**Places of Employment and Outlook** - Ongoing research linking oral health and general health will continue to increase the demand for preventive dental services. As dental practices grow, more dental assistants will be needed.

**Salary Ranges for Geographical Area** – Median salary \$34,752 in Harrisburg, PA from [www.salary.com](http://www.salary.com) Jan 2018

## Related Websites For Additional Information About The Career

<http://www.ada.org/358.aspx> (American Dental Association)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

### DENTAL ASSISTING, Certificate Program (#320P)

#### PROGRAM REQUIREMENTS (TOTAL CREDITS = 39) NEW FOR FALL 2018

General Education		Major			
COMM 101 Effective Speaking	3	DA 170 Dental Assist Pre-Clinic	4	DA 177 Dental Sciences	3
BIOL 111 Intro to Human Bio <u>OR</u>	3	DA 171 Dental Assist I	4	DA 178 Dental Clinical Exp	4
BIOL 121 A&P I (4 cr)		DA 172 Dental Materials	4	DA 179 Dental Clinical Exp I	2
		DA 173 Dental Radiology I	4	DA 180 Dental Office Practice	3
		DA 175 Oral Anatomy	3	DA 181 Preventive Dentistry	2
					Fall 2018
					39

**Program-specific courses** (taken upon acceptance into the clinical phase). Note COMM 101, BIOL 111/121 are prerequisites for the first clinical course.

Fall	Winter	Spring	
DA 170	DA 179	DA 172	The complete program is available only at the Harrisburg Campus. Prerequisites offered at all other campuses and on-line
DA 171		DA 177	
DA 173		DA 178	
DA 175		DA 180	
		DA 181	

### Expanded Function Dental Assistant (EFDA)

The EFDA program meets the requirements established by the Pennsylvania State Board of Dentistry and prepares students to take the written EFDA Examination that has been approved by the State Board of Dentistry. Students will achieve basic competence for placing and finishing both amalgam and composite resin restorations on patients. Upon completion of the program, students will be eligible for the EFDA examination and may apply to the State Board of Dentistry for certification. **If you are interested in this program – select Health Science (36560) or Dental Assisting Advanced (320A) as your major. Students can complete only the EFDA courses or continue for the Health Science degree.**

**To qualify for the program, students must have current Pennsylvania licensure as a dental hygienist OR current DANB certification as a dental assistant OR 2 years clinical experience.**

\*Information on taking the National Certification Examination for Dental Assistants necessary for acceptance into the program can be found at [www.danb.org](http://www.danb.org) or by calling 1-800-FOR-DANB.

EFDA courses – DA 252 (4 credits– offered fall term); DA 253 (2 credits– offered spring term)  
See listing under Health Science for complete degree requirements.

For more information, contact Tiffany Kessler [takesle@hacc.edu](mailto:takesle@hacc.edu) (717) 780-2398

### DENTAL HYGIENIST

Associate Degree – Harrisburg

**For Local Anesthesia for Dental Hygienists course – contact Noncredit Healthcare 717-221-1351 [nchealth@hacc.edu](mailto:nchealth@hacc.edu)**

**Description of Occupation** - The dental hygienist is qualified by education and licensure to provide patient assessment, including, but not limited to, review of health history, recording of vital signs, head, neck, and radiographic examination, oral cancer screening, and dental and periodontal charting. Treatment planning, patient education, administration of local anesthesia, removal of deposits and stains from the teeth and application of chemotherapeutic agents and placement of dental sealants are also integral parts of dental hygiene education. Many procedures performed may expose dental hygienists to bloodborne pathogens, potentially hazardous materials and ionizing radiation.

Candidates should be "people-orientated" and able to interact well with others as dentistry requires a team approach to patient care. Individuals should possess excellent communication and organizational skills. Adequate hand-eye coordination is needed to be able to perform the required fine motor skills inherent in the tasks.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-dental hygiene student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The dental hygiene program is 80 credits with the awarding of an associate in science degree upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is available only at the Harrisburg Campus. Other required courses offered at other campuses and sites. Students are responsible for recruiting their own clinic clients in the second through fifth clinical semesters. Dental hygiene clinical students see patients at the Harrisburg Campus dental clinic during the first and second year. Second year students attend "rotation sites" one-half day a week.

Graduates of the Dental Hygiene program must successfully complete the American Board of Dental Examiners, Inc. (ADEX) Dental Hygiene Examination administered by the North East Regional Board of Dental Examiners (NERB) and the National Dental Hygiene Board Examination in order to be eligible for licensure in Pennsylvania. The NERB Exam has two parts, a clinical exam on a live patient during the last clinical semester, and a Computer Simulated Clinic Exam (CSCE) taken at a Pro-Metric Test Center. The program is accredited by the *Commission on Dental Accreditation of the American Dental Association (CODA)*.

\* This is a highly competitive program that requires completion of general education courses prior to beginning the clinical portion of the program, which increases the number of semesters required to complete the program.

**Places of Employment and Outlook** –Ongoing research linking oral health and general health will continue to spur the demand for preventive dental services, which are often provided by dental hygienists. Locally, most positions are part-time with full-time employment still available.

**Salary Ranges for Geographical Area** – Median salary \$68,697 in Harrisburg, PA from [www.salary.com](http://www.salary.com) Jan 2018. Dental hygienists may be salaried or paid hourly, daily, or on a commission basis. Benefits may be contingent upon full-time employment.

**Educational Advancement** - HACC has an Affiliation agreement with Pennsylvania College of Technology, as well as possible transfers to other programs for bachelor's degree completion. Franklin University offers a BS in Healthcare Management and Shippensburg University offers a BS in Healthcare Administration.

**Related Websites For Additional Information About The Career**

[www.ada.org](http://www.ada.org)      [www.adha.org](http://www.adha.org)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

**DENTAL HYGIENE, Associate in Science Degree (#3416P) PROGRAM REQUIREMENTS (TOTAL CREDITS = 80) FALL 2018**

**Gen Education/Other Required**

ENGL 101 English Composition I	3
ENGL 102 English Composition II	3
COMM 101 Effective Speaking	3
Humanities/Arts elective	3
Wellness	1
BIOL 121 Anatomy & Phys I	4
BIOL 122 Anatomy & Phys II	4
BIOL 221 Microbiology	4
Math 111 Principles of Math	3
NUTR 104 Nutrition	3
PSYC 101 General Psychology	3
SOCI 201 Introduction to Sociology	3
<b>Total</b>	<b>37</b>

**Major**

DH 101 Theory & Clinical Experience I	6	DH 211 Theory III	3
DH 110 Dental Radiology I	3	DH 212 Clinical Experience III	2
DH 111 Dental Radiology II	1	DH 223 Theory IV	2
DH 113 Clinical Experience II	2	DH 224 Clinical Experience IV	2
DH 116 Theory II	3	DH 230 Oral Pathology	2
DH 120 Dental Anatomy	2	DH 235 Community Dental Health Ed	2
DH 180 Head/Neck Anatomy & Histology	3	DH 240 Pharmacology	2
DH 190 Periodontics	3		15
DH 150 Dental Materials	3		
DH 170 Techniques in Pain Control	2		
	28		

6/17

**RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Summer I		Fall Semester I		Spring Semester I	
BIOL 121 (Core C)	4	BIOL 122 (Core C)	4	COMM 101	3
BIOL 221 (Core C)	4	DH 101 (FYS)	6	DH 111	1
ENGL 101	3	DH 110	3	DH 113	2
		DH 120	2	DH 116	3
		DH 180	3	DH 150	3
				DH 190	3
Summer II		Fall Semester II		Spring Semester II	
DH 170	2	DH 211	3	Arts & Humanities Elect	3
DH 240	2	DH 212	2	DH 223	2
MATH 111 (Core C)	3	DH 230	2	DH 224	2
		NUTR 104	3	DH 235	2
		SOCI 201 (Core B)	3	ENGL 102	3
				PSYC 101 (Core B)	3

The complete program is available at the Harrisburg Campus. Prerequisites offered at all other campuses and on-line.

**DIAGNOSTIC MEDICAL SONOGRAPHER (ULTRASOUND TECHNOLOGIST)**

Associate Degree Program - Harrisburg

**Description of Occupation** - General sonographers are highly skilled professionals qualified by education to provide patient services using diagnostic techniques under the supervision of a licensed doctor of medicine or osteopathy. The general sonographer may provide this service in a variety of medical settings where the physician is responsible for the use and interpretation of appropriate procedures. General sonographers assist physicians in gathering data necessary to reach diagnostic decisions. The general sonographer is able to perform the following: Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results; Perform appropriate procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician; Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician; Exercise discretion and judgment in the performance of sonographic and/or other diagnostic services; Demonstrate appropriate communication skills with patients and colleagues; Act in a professional and ethical manner; Provide patient education related to medical ultrasound and/or other diagnostic vascular techniques, and promote principles of good health (From [JRCODMS](#))

**Program Admission Criteria** - This is a highly competitive and selective admission program. You will be admitted as a pre-DMS student and work with your advisor to apply to the clinical/core (DMS) component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The Diagnostic Medical Sonography program is 69 credits with the awarding of an Associate in Applied Science Degree upon successful completion. Clinical rotations are arranged within a 85 mile radius of the Harrisburg campus. Students are required to sit for the ARDMS credentialing exams (Sonography Principles and Instrumentation, Abdomen, and Obstetrics and Gynecology) and (upon successful completion, and graduation from the college) earn the title Registered Diagnostic Medical Sonographer (RDMS). The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The goal of the program is to prepare competent entry-level diagnostic medical sonographers in cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

**Places of Employment and Outlook** – Consistently on Top 25 Fastest-Growing Occupations (both US and PA). As ultrasound technology evolves, it will become a more common method used to assist in diagnosing medical conditions, favored over more invasive procedures. More than half of all sonographers are employed by hospitals, and most of the remainder work in physicians' offices and clinics, including diagnostic imaging centers.

**Salary Range for Geographical Area** – Median salary \$72,328 in Harrisburg, PA from [www.salary.com](http://www.salary.com) Jan 2018 using ultrasound technologist.

**Related Websites For Additional Information About The Career**

[www.sdms.org/](http://www.sdms.org/) [www.ardms.org/](http://www.ardms.org/)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

**DIAGNOSTIC MEDICAL SONOGRAPHY, Associate in Applied Science Degree (3426P) NEW FALL 2018**

**Program Requirements (Total Credits = 69)**

General Education & Other Required Courses		Major (Clinical Phase)			
ENGL 101	3	DMS 105 Intro to Health Care	4	DMS 210 Vascular Sonography I	1
COMM 101 or 203	3	DMS 110 Intro to DMS	4	DMS 212 Vascular Sonography II	2
Humanities/Arts elective	3	DMS 115 Clinical I	2	DMS 215 Clinical III	4
Social/Behavioral Science elective	3	DMS 120 DMS Lab I	1	DMS 220 DMS Lab III	1
Wellness	1	DMS 125 Clinical II	3	DMS 225 Clinical IV	4
BIOL 111	3	DMS 130 Abdominal Sonography I	4	DMS 250 OB/GYN II	3
MATH 103	3	DMS 140 DMS Lab II	1	DMS 270 Acoustical Principles II	2
PHYS 161	3	DMS 150 OB/GYN I	3	DMS 274 DMS Topics	1
First Year Seminar (FYS)	1	DMS 170 Acoustic Principles I	4		
11/17	23	DMS 180 High Res Imaging I	1		46
		DMS 182 High Res Imaging II	1		

**RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Summer I		Fall Semester I		Spring Semester I	
BIOL 111	3	COMM 101 or 203	3	DMS 115	2
ENGL 101	3	DMS 105	4	DMS 120	1
MATH 103	3	DMS 110	4	DMS 130	4
		FYS Elective	1	DMS 150	3
		PHYS 161	3	DMS 170	4
Summer II		Fall Semester II		Spring Semester II	
DMS 125	3	Arts & Humanities Elective	3	DMS 182	1
DMS 140	1	DMS 215	4	DMS 212	2
DMS 180	1	DMS 220	1	DMS 225	4
DMS 210	1	DMS 250	3	DMS 274	1
		DMS 270	2	Social & Behavioral Science Elective	3
				Wellness	1

**EMERGENCY MEDICAL TECHNICIAN (EMT)**

**Noncredit Certificate**

Adams, Cumberland, Dauphin, Lancaster, Lebanon, York and other statewide counties (see current EMS schedule for specifics)  
 Program accredited by the Pennsylvania Department of Health – Bureau of EMS.

**Description of the Occupation** - An Emergency Medical Technician includes the knowledge and skills required to provide basic pre-hospital emergency care. This program serves as the foundation for emergency medical services. This course teaches students the overall roles and responsibilities of the EMT; an overview of anatomy and physiology; assessment of injuries and illnesses; cardiopulmonary resuscitation (CPR); control of bleeding and shock; care of musculoskeletal injuries; medical emergencies; childbirth; pediatric emergencies; environmental emergencies; lifting and moving of patients; automated external defibrillation; and assisting patients with their own prescribed medications. Also included are the skills needed to assess the scene and properly move and transport patients to the emergency department.

**EMT**

An Emergency Medical Technician includes the knowledge and skills required to provide basic pre-hospital emergency care. This program

serves as the foundation for emergency medical services. This course teaches students the overall roles and responsibilities of the EMT; an overview of anatomy and physiology; assessment of injuries and illnesses; cardiopulmonary resuscitation (CPR); control of bleeding and shock; care of musculoskeletal injuries; medical emergencies; childbirth; pediatric emergencies; environmental emergencies; lifting and moving of patients; automated external defibrillation; and assisting patients with their own prescribed medications. Also included are the skills needed to assess the scene and properly move and transport patients to the emergency department. This course includes a scheduled Pennsylvania Department of Health practical examination.

HACC's EMT program is 200 hours in length.

### **EMS Academy**

This program has been developed through a collaborative effort of regional educators, regulatory agencies and prospective employers to ensure the highest level of training for potential Emergency Medical Service providers for successful entry into the field. Students do not need prior knowledge of Emergency Medical Services. Upon successful completion of the program, academy graduates will have completed training for or earned the following certifications:

- Pennsylvania Department of Health EMT certification
- Emergency Vehicle Driver Training (EVDT)
- International Trauma Life Support (ITLS)
- Pediatric Emergency Assessment Recognition and Stabilization (PEARS)
- Advanced Cardiac Life Support (ACLS) for the EMT-Basic (EMT-B)
- National Incident Management System components (Overview, IS 100, IS 200 and IS 700)
- Blood Borne Pathogens (BBP)
- Hazardous Materials Operations (IAFF)

Additional training will be provided in vehicle extrication and rescue practices. Academy cadets will be required to spend a minimum of 200 hours in clinical rotations at various EMS agencies where they will be expected to function as a member of an EMS crew.

This concentrated program consists of 450 hours of training. Attendance at all classes and completion of clinical rotation time is mandatory for successful completion of the academy. *All students must submit a complete program application for consideration to be accepted into the EMS Academy program.*

**Places of Employment and Outlook** – Consistently on Top 25 Fastest-Growing Occupations (both US and PA). Some facilities will pay for the candidate's training. Nursing homes, long-term care facilities, hospitals, and special needs homes. Some facilities will pay for the candidate's training.

**Salary Range** - \$34,481 median salary in Harrisburg Jan 2018 from [www.salary.com](http://www.salary.com) for EMTs.

### **Related Websites For Additional Information About The Career:**

[www.ehsf.org](http://www.ehsf.org) [www.pehsc.org](http://www.pehsc.org) [www.naemt.org](http://www.naemt.org)

**Questions? Call 717-780-2458 or email [emstrng@hacc.edu](mailto:emstrng@hacc.edu) (Office located in North Hall)**

## **GERONTOLOGY**

Credit Diplomas (0231) and Certificate (3300) and Associate (3476) - Gettysburg/Harrisburg/Lancaster/Lebanon/York/Virtual  
**GERT courses are offered only online.**

Also, Gerontology courses can be taken individually for credit. ***Each one-credit Gerontology course is approved for 12 continuing education credits for Personal Care/Assisted Living Administrators and Direct Care Workers, and for RNs.***

**Description of Occupation** - Gerontology programs are designed to develop sensitivity and competence for those individuals in allied health, social services, activities, business, marketing, wellness and administrative fields who work with the aging population. The course content includes basic principles and issues in gerontology, allied health, social service, mental health, psychosocial and wellness as well as 20 hours of service learning volunteering.

**Program Entry Requirements** – Gerontology is not a selective admission program.

**Length of Program and College Certificate/Diploma Conferred** - The Gerontology Diploma is 17 credits. The Gerontology Certificate is 30 credits. The program works well as an add-on to many health career and social services majors. Why not have a second area of emphasis? Courses from this Diploma and Certificate can be applied to other degrees at HACC. NEW Associate in Applied Science Degree is 61 credits and can be completed totally online. If you previously earned the Diploma or Certificate, you can use those courses towards the AAS degree.

**Employment Outlook** - The U.S. Census Bureau projects that the elderly population will grow dramatically as members of the "Baby Boomer" generation move into the 65 and older age group. Pennsylvania consistently is among the states with the greatest elderly population. Gerontology students find employment with hospitals, home health agencies, retirement communities, social services providers, government entities, and a variety of businesses.

**Salary Range** - Will vary according to level and type of employment.

### **Related Websites For Additional Information About The Profession**

[www.nccap.org/](http://www.nccap.org/) [www.aoa.gov/](http://www.aoa.gov/) [www.directcarealliance.org](http://www.directcarealliance.org)

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

**GERONTOLOGY, Diploma Program (#0231)  
PROGRAM REQUIREMENTS (TOTAL CREDITS = 17)**



General Education & Other Required Courses		Major (Clinical Phase)			
ENGL 101	3	GERT 100 Gerontology Overview	1	PSYC 101 Gen Psychology	3
		GERT 101 Social Services	1	SOCI 201 Intro to Sociology	3
		GERT 102 Allied Health	1		
		GERT 103 Psychosocial Issues	1		
		GERT 104 Intro to Service Learning	1		
		Gerontology Elective	3		8/17

**GERONTOLOGY, Certificate Program (#3300)**  
**PROGRAM REQUIREMENTS (TOTAL CREDITS = 30)**

General Education & Other Required Courses		Major (Clinical Phase)			
ENGL 101	3	GERT 100 Gerontology Overview	1	GERT 200 Legal/Ethical Aspects	3
		GERT 101 Social Services	1	GERT 201 Social Aspects of Aging	3
		GERT 102 Allied Health	1	GERT 232 Death & Dying	3
		GERT 103 Psychosocial Issues	1	PSYC 101 Gen Psychology	3
		GERT 104 Intro to Service Learning	1	SOCI 201 Intro to Sociology	3
		GERT 105 Careers in Gerontology	1	Gerontology Elective	6

**GERONTOLOGY, Associate in Applied Science Degree (#3476)**  
**PROGRAM REQUIREMENTS (TOTAL CREDITS = 61) NEW FALL 2018**

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	GERT 100 Gerontology Overview	1	BUSI 101 Introduction to Business	3
ENGL 102 English Comp II OR ENGL 104 Technical Writing	3	GERT 101 Social Services	1	NUTR 104 Nutrition	3
ENGL 106 Business Writing		GERT 102 Allied Health	1	PSYC 101 General Psychology	3
COMM 101 Effective Speaking OR COMM 203 Interpersonal Comm	3	GERT 103 Psychosocial Issues	1	PSYC 209 Life Cycle Development	3
Humanities & Arts Elective	3	GERT 104 Service Learning	1	SOCI 201 Introduction to Sociology	3
Social & Behavioral Science Elect	3	GERT 105 Careers in Gerontology	1		15
Math or Science Elective	3	GERT 200 Legal and Ethical Aspects of Aging	3		
Wellness	1	GERT 201 Social Aspects of Aging	3		
	19	GERT 211 Women and Aging	3		
		GERT 215 Aging Around the World	3		
		GERT 220 Caregiving & Aging	3		
		GERT 225 Long-Term Care Leadership & Mgmt	3		6/17
		GERT 232 Death and Dying	3		
			3		
			27		

**HEALTH CARE MANAGEMENT**

**Health Care Management Associate Degree - Gettysburg/Harrisburg/Lancaster/Lebanon/York**

**Health Care Management** is a program ideal for students who are not actively credentialed and working in health care and are seeking a career in health care administration.

Students who are actively credentialed health care professionals currently working in their fields may be qualified for the **Health Science** degree (with options in management/marketing, medical administration, gerontology or social service), where they can receive 30 credits toward graduation for that credential and receive a similar degree (yet require fewer courses).

**Description of Occupation** - Health care managers plan and supervise the delivery of health care. Clinical managers often have previous training or experience in their specific area. Small group practices usually employ one health service manager to handle all of the duties while larger medical groups often employ a chief administrator and several assistants. Managers in HMOs and other managed care settings perform more community outreach and preventative care work than those in a group practice. Because facilities such as nursing homes and hospitals operate around the clock, most health services managers work long hours and may be called at all hours to deal with problems.

**Program Entry Requirements – Health care management** has no program entry requirements. Criminal background check, child abuse clearance and/or drug screening may be required for employment.

**Length of Program and College Degree Conferred** – The health care management degree is 63 credits which can be completed in two years or at the student's own pace.

**Employment Outlook** – A master's degree is preferred for most manager positions, but a bachelor's degree and/or work experience may be accepted at smaller facilities. Opportunities will be best in home health care agencies, residential facilities, and physicians' offices. Long work hours are common at hospitals and nursing homes.

**Salary Range** - Will vary according to level and type of employment.

**Educational Advancement** - Franklin University offers a BS in Healthcare Management; Shippensburg University offers a BS in Healthcare Administration; Lebanon Valley College offers a part-time evening BS in Health Care Management; Immaculata University offers a BA in Health Care Management part-time evenings at HACC's Lancaster campus, Fort Indiantown Gap and on-line.

**Health Care Management, Associate in Applied Science Degree (#3606) Program Requirements (Total Credits = 60) NEW FALL '18**

General Education		Health Care Management			
ENGL 101	3	ACCT 101	4	CIS 105	3

ENGL 102 or ENGL 106	3	ACCT 200	4	ECON 201	3
COMM 101	3	AH 210	3	MATH 100	3
Humanities & Arts Elective	3	AH 213	3	MGMT 130	3
Math or Science Elective	3	BIOL 105	3	MGMT 201	3
Wellness	1	BIOL 111 or 121	3	MGMT 203	3
First-Year Seminar		BUSI 101 (FYS)	3	MKTG 201	3
10/17	16				44

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

### HEALTH SCIENCE

#### Health Science Associate Degree - Gettysburg/Lancaster/Lebanon/Harrisburg & Online Some concentrations are available at specific campus locations only.

Health Science is a program for students who are actively credentialed health care professionals currently working in their fields. Options available in management/marketing, medical administration, gerontology, radiography, or social service, where students receive 30 credits toward graduation for that credential. Students who are NOT actively credentialed health care professionals currently working in their fields may be interested in the Health Care Management degree.

**Description of Occupation** - While not designed to lead to one specific occupation, students may pursue careers in health care administration, gerontology, radiography or social service (may need additional education).

**Program Entry Requirements** – Students must be actively credentialed health care professionals currently working in their fields. (Commonly held approved credentials are LPN, paramedic, medical assistant (RMA, CMA), dental assistant (CDA), massage therapist (NCBTMB), medical coding (CPC, CCS), CVT (RCS, RDCS, RDMS), rad tech (RTR), Activities Director (ADC). Contact Vicki Gentzel (717 780-1992 or 800-222-4222 ext 211992 [vlgentze@hacc.edu](mailto:vlgentze@hacc.edu)) for specific requirements and to begin the approval process for health science. Criminal background check, child abuse clearance and/or drug screening may be required for employment.

**Length of Program and College Degree Conferred** –The health science degree is 61 credits, 30 of which are credits granted (for the credential and current employment) toward graduation.

**Salary Range** - Will vary according to level and type of employment.

**Educational Advancement** - Siena Heights University offers an online bachelors in applied science; Franklin University offers a BS in Healthcare Management; Shippensburg University offers a BS in Healthcare Administration; Lebanon Valley College offers a part-time evening BS in Health Care Management; Immaculata University offers a BA in Health Care Management part-time evenings at HACC's Lancaster campus, Fort Indiantown Gap and on-line. Gerontology and Radiography option graduates may pursue advanced degrees in those fields.

#### Health Science, Associate in Applied Science Degree # 3656 – 62 Credits NEW FALL 2018

**Options, select one:** Management/Marketing; Gerontology – for anyone; the following are restricted to students holding specific credentials: Expanded Function Dental Assistant (EFDA), Paramedic, Pediatric Imaging, Radiologic Imaging and Vascular Imaging

General Education	Cr	Select <u>one</u> option & choose 12 credits from that option Note – the <i>Management/Marketing and Gerontology</i> options are available for anyone and can be completed online. The other options are restricted to students holding specific credentials and are available at specific campuses only. Courses listed in the program options must be completed with at least a "C" grade.							
		Management / Marketing	Select 12 Cr	Gerontology	Select 12 Cr	EFDA (Harrisburg)	12 Cr	Vascular Imaging (Lancaster)	Select 12 Cr
ENGL 101	3	AH 213 (required)	3	GERT 104	1	DA 252	4	ANY CVAS	12 Cr
COMM 101 or 203	3	+ 9 cr from list below:		GERT 105	1	DA 253	2	CLASSES:	
Humanities/Arts elec	3	ACCT 101	4	ANY GERT	10 Cr	SOCI 201	3	235 or above	
Social/Beh Sci elect	3	MGMT 201	3	CLASSES		NUTR 104	3		
Wellness	1	MGMT 203 OR 204	3						
AH 210 Law & Ethics	3	MGMT 226	3						
Math 100	3	MKTG 201	3						
Students will be awarded 30 credits for credential	30			Paramedic (Harrisburg)	Select 12 Cr	Radiologic Imaging (Lancaster)	Select 12 Cr	Pediatric Imaging (Lancaster)	Select 14 Cr
	49 cr			EMS 238	3	ANY RADT	12 Cr	ANY CVT	14 Cr
				EMS 240	3	CLASSES:		CLASSES:	
				EMS 241	3	220 or above		231 or above	
				SOCI 201	3				
				PSYC 101	3				8/15/17

At least 16 credits must be taken at HACC. Transfer credits plus credits awarded for credential cannot exceed 45.

**Complete program offered available at all campuses and on-line.**

Questions about the program? Contact Vicki Gentzel 717-780-1992 or (800) 222-4222 ext 211992

General questions or how to get started? Contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

### HUMAN SERVICES/SOCIAL SERVICES



**Description of Occupation: Social Services** Students are prepared for transfer to 4 year programs in social work and counseling and trained for entry-level positions in such fields as mental health, intellectual disabilities, day care, gerontology, family services, drug and alcohol rehabilitation, and community development.

In general, social service workers conduct interviews, develop assessments, and create service plans. They monitor the progress of their clients and revise the plans when needed. They are employed in settings where they can assist people develop individualized strategies and solutions, where people are finding it difficult to navigate the various social systems. They are responsible for recording accurate information and imparting that information to senior staff.

For example, in schools social workers and counselors help students and their families create educational plans, at the same time working with schools to create policies that will prevent violence and encourage collaboration among students. Social service workers are found in hospitals where they work with patients and their families to construct useful discharge plans and specialized support services while hospitalized. In rehabilitation centers they work with patients to maximize their rehabilitation program; in facilities and programs for seniors they are there to work out the best alternatives for independent living or care within a facility; in substance abuse programs they are found conducting educational programs, group sessions, and individual planning sessions; in programs for victims of violence and crime they provide support, encouragement, and information; For those with physical and developmental disabilities they are there to create individual options to maximize the individuals strengths for personal fulfillment; and they are suicide hot line counselors. There are many opportunities to support others and to advocate for them.

Those with advanced degrees can provide therapeutic counseling, direction to others, and development of programs and policies that will benefit groups of individuals who are disadvantaged.

**Human Services** Students are trained for entry-level positions in such fields as mental health, intellectual disabilities, day care, gerontology, family services, drug and alcohol rehabilitation, and community development.

Human service workers are responsible in a variety of settings for the daily care and support of people seeking social services. Management of residential homes, work in hospital units, providing case management services, transporting individuals to needed services, monitoring the special needs of children and adults, giving information and making referrals for those seeking assistance with a wide variety of problems are all part of the human service workers position. Human service workers are often closely associated with those they are helping, giving intense, daily direction and support.

Human service workers generally work under senior staff who provide supervision and direction. Trained to listen, form impressions, and accurately document their findings, they are indispensable in agencies where large numbers of clients are served.

Candidates should be people-oriented and able to interact well with others. Individuals should possess excellent communication and organizational skills and have strong writing skills. Candidates should be flexible and resourceful and be able to collaborate with others.

**Program Admission Criteria: Social Services Selective Program.** Admission to the college doesn't guarantee admission to the clinical component of the program. All students must undergo Pennsylvania Child Abuse History Clearance, FBI Check and State Police Criminal Record Check. Check the Health Careers website for complete program admission criteria.

**Human Services Selective Program.** Admission to the college doesn't guarantee admission to the clinical component of the program.. All students must undergo Pennsylvania Child Abuse History Clearance, FBI Check and State Police Criminal Record Check. Check the Health Careers website for complete program admission criteria.

**Length of Program and College Degree Conferred: Social Services** The Associates Degree in social services is awarded upon completion of 63 credits and can be completed in 4 semesters. The time for completing these programs depends on the student's need for developmental coursework and the student's study skills.

**Human Services** The time for completing this program depends on the student's need for developmental coursework and the student's study skills. The Human Services AAS program (General Track) is accredited by the Council for Standards in Human Service Education. The Drug & Alcohol Track is not currently accredited, however it is the goal of the program to achieve accreditation. The primary program objective shall be to prepare human services professionals to serve individuals, families, groups, communities and/or other supported human services organization functions.

**Program Differences:** The Social Services AA degree is 63 credits and prepares students to transfer to 4 year colleges for pursuit of a Bachelor's Degree. Students with the Social Service AA degree are prepared to work in social service agencies in entry level positions. The Human Services AAS degree has two options: a general human services track (60 credits) prepares students to work in entry level positions in almost all human service agencies and a drug and alcohol services track (60 credits) which is more specialized. This degree is intended to lead directly to a career and does not contain general education courses needed to transfer to a 4-year college.

**Places of Employment and Outlook:** The field of human services is expected to grow over the next 10 years. Students are generally employed in full-time positions before leaving the program or in the first 4 weeks following graduation. Almost all social service agencies have entry level positions which include work as technicians and case managers. Children, women's programs, substance abuse, mental health, intellectual disabilities, and aging all have entry-level positions.

**Salary Ranges for Geographical Area:** Social & Human Service Assistant - \$31,420; Child, Family & School Social Workers - \$37,750; Educational, Vocational & School Counselors - \$57,200 – median salaries in PA from acinet.org June 2017.

**Related Websites For Additional Information About The Profession:**

[www.nasw-pa.org](http://www.nasw-pa.org) - National Association of Social Workers (PA Chapter)

[www.nationalhumanservices.org](http://www.nationalhumanservices.org) - National Organization for Human Services

<http://socialservicenetwork.com> - Social Service Network

**Social Services, Associate in Arts Degree #5060 Program Requirements (Total Credits = 63) FALL 2018**

<u>General Education</u>		<u>Major</u>	
ENGL 101 English Comp I	3	HUMS 100 Intro to Human Services	3
ENGL 102 English Comp II	3	HUMS 120 Social Welfare Programs and Policies	3
COMM 101 Effective Speaking	3	HUMS 121 Skills and Methods in Human Services I	3
Core A (Rec: PHIL 225)-must be PHIL course	3	HUMS 122 Skills and Methods in Human Services II	3
Core A or Core C Elective**	3	HUMS 200 Group Work Practice	3
Core C Elective Math (Rec: MATH 202)	3	HUMS 206 Human Dev in the Social Environment	3
Physical Education/Wellness	1	HUMS 215 Fieldwork Practicum	4
First-Year Seminar	1		22
BIOL 111 Intro to Human Biol	3		
PSYC 101 General Psych	3		
SOCI 201 Intro to Sociology or SOCI 205 Race & Cultural Relations	3		
Science with Lab Elective ***	3		
Transfer Electives	9		
	41		

\*\* Select EITHER a literature course (ENGL 200-299) OR one of the following foreign language courses: SPAN 101, 102; FRCH 101, 102 or GRMN 101, 102

\*\*\* Science with lab ASTR 103, 104; BIOL 101, 108; CHEM 101, 113; or PHYS 201.

**Human Services, Associates In Applied Science Degree #5556 Program Requirements (Total Credits = 60) FALL 2018**

<u>General Education Requirements</u>		<u>SELECT A TRACK</u>	
ENGL 101 English Composition I	3	<b>General Human Services Track</b>	30 cr
COMM 203 Interpersonal Communication	3	HUMS 120 Social Welfare Programs & Policies	3
First Year Seminar	1	HUMS 121 Skills & Methods in Human Serv I	3
Humanities/Arts elective	3	HUMS 122 Skills & Methods in Human Serv II	3
Wellness	1	HUMS 200 Group Work Practice	3
HUMS 100 Intro to Human Services	3	HUMS 206 Hum Devel in a Social Environment	3
HUMS 108 Drugs & Alcohol: Use & Abuse	3	SOCI 205 Race and Cultural Relations	3
HUMS 215 Fieldwork Practicum	4	Must choose 4 of the following courses	12
MATH 111 Principles of Math	3	BIOL 111, CJ 101, ENGL 104/106, GERT 211, GERT 215,	
PSYC 101 General Psychology	3	HUMS 109, HUMS 216, HUMS 217, HUMS 218, PSYC 213,	
SOCI 201 Intro to Sociology	3	PSYC 229, SOCI 202, SOCI 203	
	30	<b>Drug &amp; Alcohol Services Track</b>	30 cr
		HUMS 109 Drugs & Alcohol: Issues & Treatment	3
		HUMS 122 Skills & Methods in Human Serv II	3
		HUMS 216 Crisis & Brief Intervention Counseling	3
		HUMS 217 Addictions Counseling Interventions	3
		HUMS 218 Co-Occurring Disorders	3
		HUMS 219 D&A Screening & Assessment	3
		HUMS 220 D&A Foundational Counseling Skills	3
		Must choose 3 of the following courses	9
		BIOL 105, BIOL 111, CJ 101, ENGL 106, GERT 211,	
		GERT 215, HUMS 200, HUMS 206, PSYC 213,	
		PSYC 229, SOCI 202, SOCI 203	

*Note: A grade of C or higher is required for all HUMS, PSYC & SOCI courses*

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**Complete programs offered at Gettysburg, Harrisburg, Lancaster, and York campuses. Some courses also available in Lebanon and online.**

**MASSAGE THERAPIST**

Noncredit Certificate – Harrisburg

**Description of Occupation** - Massage therapy applies a system of structured touch, pressure, movement, holding and treatment of the soft tissue manifestations of the human body in which the primary intent is to enhance the health and well-being of the client. (Pennsylvania Massage Code): <http://www.pacode.com/secure/data/049/chapter20/chap20toc.html>

**Massage Therapists** prepare equipment; interview clients; perform therapeutic massage - including applying oil/lotion to the skin, massaging the body by gliding, kneading, stretching or applying static pressure, all at varying depths to muscles and connective

tissue; clean equipment, supplies and work area; keep records; and consult with other health care professionals. The therapist is responsible for the health and safety of clients during treatment sessions. Massage therapy can be physically demanding and may require standing for long periods of time.

A massage therapist should have a desire to facilitate health and healing, have strong communication skills, a sensitive touch and be in good physical condition

**Program Admission Criteria** – See [Health Careers website](#) for specific program admission requirements. This is a noncredit program which can lead to an Associate Degree in Health Science at HACC.

**Program Information** - The massage therapy training program is offered in Harrisburg. The full-time day program class meets Mon, Tue, Wed, Thu, 9am – 3pm for 7 months at the Harrisburg campus. Sessions begin in September. The part-time program begins in January at Harrisburg and meets three evenings per week from 5:30-9:30 pm (and 4 Saturdays) for 12 months. The course of study includes anatomy, physiology, kinesiology, and pathology; massage modalities including Swedish massage, sports massage, connective tissue therapy, neuromuscular therapy, chair massage, spa treatments, aromatherapy and integration and assessment. Additional coursework is included in ethics, professional communication and personal awareness as well as in business practices. Students are required to complete 105 hours in the student clinic, including a minimum of 50 supervised massages. Graduates will receive a certificate of completion from HACC.

Tuition for the Massage Therapy Training Program is \$11,800, which includes all supplies and a clinic uniform shirt. Students may be qualified for Financial Aid (FAFSA), loans or payment plans and the massage therapy program has been approved for veterans' education benefits.

Pennsylvania law requires a state-issued license in order to practice massage therapy. Graduates of HACC's program will meet the criteria to apply for licensure. Once a graduate is licensed and employed as a massage therapist, he or she is eligible to receive 30 college credit hours from HACC, which can articulate toward an Associate's Degree in Health Science. The HACC Massage Therapy Program is a school member of the American Massage Therapy Association ([AMTA](#)) and Associated Bodywork and Massage Professionals ([ABMP](#)). As such we abide by both organizations' codes of ethics. Our curriculum has been approved by the National Certification Board for Therapeutic Massage and Bodywork and our graduates are eligible to take the Massage and Bodywork Licensing Exam ([MBLEX](#)).

**Places of Employment and Outlook**- Consistently on Top 25 Fastest Growing and Occupations with the Most Openings. Continued growth in the demand for massage services will lead to new openings for massage therapists. Massage therapists work in private or group massage practices, physicians' offices and clinics, hospitals and wellness centers, chiropractic offices, on-site (chair massages in offices, airports, at public events, etc.), health clubs and fitness centers, sports teams and events, spas and resorts, hotels, beauty and hair salons, and cruise ships.

**Salary Ranges for Geographical Area** - \$47,078 median salary in Harrisburg from salary.com Jan 2018

**Related Websites for Additional Information about The Career**

[www.amtamassage.org](http://www.amtamassage.org) [www.abmp.com](http://www.abmp.com) [www.massagetherapycareers.com](http://www.massagetherapycareers.com)

**Questions? Contact Nina Kottcamp** [nmkottca@hacc.edu](mailto:nmkottca@hacc.edu) 717-221-1386 or (800) 222-4222 ext. 211386

## REFLEXOLOGIST

Noncredit Certificate – Harrisburg

**Description of Occupation** - Highlights the impact of pressure points on the feet, hands and ears and the techniques that reduce stress and increase relaxation to help revitalize the body. Acting as a powerful therapeutic technique, Reflexology aids in circulation, body detoxification, and immune and nervous systems functioning. It also helps calm the emotions and assist in the release of tension.

**Program Information** - The reflexology program is offered at the Harrisburg campus.

Our 112 hour course of study is designed to provide students with the knowledge, skill and ability to use Reflexology as an effective bodywork modality, and allow them to meet the current national examination requirements for certification with the American Reflexology Certification Board. Students will learn: History of Reflexology; Theory and principles of Reflexology; Techniques for effective application Relevant anatomy and physiology; Map of reflexes on the feet, hands and ears; Business practices and ethics; How to effectively document sessions; How to perform a complete reflexology session.

**Questions? Contact Nina Kottcamp** [nmkottca@hacc.edu](mailto:nmkottca@hacc.edu) 717-221-1386 or (800) 222-4222 ext. 211386

## MEDICAL ASSISTANT

Certificate - Harrisburg & Gettysburg

**Description of Occupation** - Medical Assistants are allied health professionals specifically trained to work in ambulatory settings, such as physicians' offices, clinics and group practices. These multi-skilled personnel can perform administrative and clinical procedures. Physicians value this unique versatility and not surprisingly, the demand for medical assistants is expanding rapidly. In small practices, medical assistants are usually "generalists," handling both administrative and clinical duties and reporting directly to an office manager, physician, or other health practitioner. Those in large practices tend to specialize in a particular area under the supervision of department administrators. The job outlook for Medical Assistants is expected to grow by 31% (much faster than average) from 2010-2020 according to the Bureau of Labor Statistics.

Medical assistants perform many administrative duties. They answer telephones, greet patients, update and file patient medical records,

fill out insurance forms, handle correspondence, schedule appointments, arrange for hospital admission and laboratory services, and handle billing and bookkeeping.

Clinical duties vary according to state law and include taking medical histories and recording vital signs, explaining treatment procedures to patients, preparing patients for examination, and assisting the physician during the examination. Medical assistants collect and prepare laboratory specimens or perform basic laboratory tests on the premises, dispose of contaminated supplies, and sterilize medical instruments. They instruct patients about medication and special diets, prepare and administer medications as directed by a physician, authorize drug refills as directed, telephone prescriptions to a pharmacy, draw blood, prepare patients for x-rays, take EKGs, remove sutures, and change dressings. Medical assistants may be exposed to bloodborne pathogens and potentially hazardous materials.

Medical assistants are people who have an interest in health care and like to work with people in an intimate way and possess a genuine desire to help those in need. Medical assistants have a strong desire to do things correctly, down to the small details. They are levelheaded and intelligent, able to remain calm in emergencies, and to function under pressure. They are interested in science and are able to apply theory to real life situations. They can do clinical procedures as well as organize and prioritize tasks with little supervision, with an interest in business methods.

**Program Admission Criteria - Selective program.** Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-medical assisting student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The medical assistant *certificate program* is 37 credits, with the awarding of a certificate upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The program can be completed full-time (days) in 9 ½ months. Externships (240 hours – usually 6 weeks full-time) are held during the day and are conducted in local physicians' offices and clinics. Every attempt is made to find a site that is close to the student's place of residence but there can be no guarantees. Students are required to sit for the Certified Medical Assistant exam as administered by the American Association for Medical Assisting prior to graduation. The program is accredited by the Commission on Accreditation of Allied Health Education Programs ([CAAHEP](#) 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; 727-210-2350). This is based on the recommendation of the Medical Assisting Education Review Board (MAERB). The goal of the program is to prepare competent entry-level medical assistants in cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Students will be required to practice phlebotomy and injection skills on simulators and on each other.

**Places of Employment and Outlook** – Consistently on Top 25 Fastest Growing and Occupations. Demand will stem from physicians hiring more medical assistants to do routine administrative and clinical duties so that physicians can see more patients.

**Salary Ranges for Geographical Area** – Median salary \$32,782 in Harrisburg from salary.com Jan 2018

**Related Websites For Additional Information About The Career**

[www.aama-ntl.org](http://www.aama-ntl.org) (American Association of Medical Assistants)

[www.acinet.org/acinet/occ\\_rep.asp?soccode=319092&from=&Level=&keyword=&stfips=42&x=17&y=2](http://www.acinet.org/acinet/occ_rep.asp?soccode=319092&from=&Level=&keyword=&stfips=42&x=17&y=2) (Career InfoNet)

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**  
**Program questions? Contact Malinda Rettinger, [msrettin@hacc.edu](mailto:msrettin@hacc.edu), 717-221-1326**

**MEDICAL ASSISTING, Certificate Program (#321P)**  
**PROGRAM REQUIREMENTS (TOTAL CREDITS = 37)**

Fall 14 weeks	Spring 14 weeks	Summer I 6 weeks
Bio 111 Intro to Human Biology (3 cr)	MA 150 Pathophysiology for MA (3 cr) MA 200 Pharmacology for MA (3 cr)	MA 230 Externship (4 cr) 240 hours 40 hours/week
MA 110 Medical Terminology (3 cr) MA 140 Intro to Medical Assisting (4 cr)	MA 201 Pharmacology Lab (1 cr) MA 212 Ambulatory Care Clinical procedures (4 cr)	
MA 142 Intro to Med Lab Techniques (3 cr)	MA 220 Medical office Administration (3 cr)	
MA 213 Medical Insurance and Billing (3 cr)	CIS 105 Intro to Software for Business (3 cr)	
16 credits	17 credits	4 credits

**Students may complete BIOL 111, CIS 105, MA 110 and 150 in advance of acceptance into the clinical phase of the program.**

An externship (240 hours – usually 6 weeks full-time) is required and scheduled during summer semester. It is arranged by the college in a local physician's office or clinic during normal daytime business hours Monday through Friday. The college attempts to find a site that is close to the student's place of residence but there are no guarantees.

**MEDICAL BILLING & CODING SPECIALIST**

Harrisburg, Lancaster and Lebanon and on-line

**Description of Occupation** – Medical Billing and Coding Specialists are responsible for translating and sequencing medical documentation into formal standardized, numerical codes for diagnoses and procedures. Medical billing and coding supports the billing process by coding and processing claims.

**Program Admission Criteria** – *This is a noncredit course.* A college application, school transcripts and placement testing are not required. High school diploma or GED is required. State Police Criminal Record Check and drug screening may be required for employment in the healthcare field. Typing or keyboarding skills are helpful but not required for entry.

**Program Information** – *This is a noncredit course.* Students can complete this program by taking courses in a 13 month sequence attending class two (2) nights a week or in a 27 month sequence attending class one (1) night a week. The program is offered evenings (a few courses are offered via internet). It is offered completely in Harrisburg, Lancaster and Lebanon. Quizzes and exams are given in each class. Timing and materials covered in tests and quizzes are at the discretion of the instructor for each class. A Certificate of Completion will be awarded after successfully completing this program. Medical Coding is a field that requires ongoing education in order to remain competent. Students who complete this program may work toward coding certification or a degree in health information technology.

**Places of Employment and Outlook** - This program prepares individuals for employment in the medical community that involve medical billing, coding, and claims processing. Various organizations in the community offer opportunities for employment including medical practices, hospitals, nursing/rehab facilities, coding and billing services, insurance companies, government agencies, and consulting firms.

**Salary Ranges for Geographical Area** – \$49,279 median salary for Medical Records Coding Technician for Harrisburg Jan 2018 from [www.salary.com](http://www.salary.com)

**Related Websites**

[www.acmcs.org](http://www.acmcs.org) [www.aapc.com](http://www.aapc.com) [www.ahima.org](http://www.ahima.org)

**Required Courses** – 240 Hours

**Prerequisite Courses**

Medical Terminology, Intro to A&P, Human Illness/Disease

**Core Courses**

Intro to Medical Coding, Advanced Coding, Intro to Medical Insurance, Certification Prep

**If you are interested in this program or have questions, Contact Jackie Foster at 717-221-1354, [jafoster@hacc.edu](mailto:jafoster@hacc.edu). Visit our web site at <https://vc.hacc.edu/> for our current schedule of classes.**

**MEDICAL LABORATORY TECHNICIAN**

Associate Degree - Harrisburg

**Description of Occupation** - Medical laboratory technicians have the technical expertise necessary to perform a wide variety of routine and specialized tests on patient specimens to help the physician in the diagnosis and treatment of disease. The medical laboratory technician must be able to read charts and graphs, discriminate colors, read instrument scales, observe microscopic cells and organisms, and record results with accuracy and detail; communicate effectively and sensitively in order to elicit information; assess non-verbal communication and be able to transmit the information to all members of the health care team; manifest all of the skills necessary to carry out diagnostic procedures, manipulate instruments and equipment; perform phlebotomy safely and accurately; demonstrate the emotional health required for full utilization of their intellectual abilities; and be able to recognize emergency situations and troubleshoot when problems occur or results don't make sense, and be able to take the appropriate action. Medical lab technicians may be exposed to bloodborne pathogens and potentially hazardous materials.

Medical laboratory technicians are vital members of the health care team and play an important role in the collecting of information necessary to care for the ill or injured patient. Laboratory work frequently deals with life and death situations; therefore, the medical laboratory technician must demonstrate the qualities of accuracy, dependability, responsibility, dedication, and self-motivation.

**Program Admission Criteria** - Selective program. Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-MLT student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The medical laboratory technician associate degree program is 67 credits with the awarding of an associate of science degree upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is available at the Harrisburg Campus. Some required courses offered at other campuses and sites. Graduates can sit for [American Society of Clinical Pathologists \(ASCP\)](#) and [National Credentialing Agency \(NCA\)](#) certification exams. The program is fully accredited by the [National Accrediting Agency for Clinical Laboratory Sciences \(NAACLS\)](#).

**Places of Employment and Outlook** – On Top 25 Fastest Growing and list for US and for PA. MLTs are employed by acute care facilities, large physicians' office practices, independent laboratories including research, business and industry, and veterinary offices.

**Salary Ranges for Geographical Area** – Median salary \$48,555 Harrisburg Jan 2018 from [www.salary.com](http://www.salary.com)

**Related Websites For Additional Information About The Career**

<http://www.ascp.org/functional-nav/career-center> [www.ascls.org](http://www.ascls.org) [medlabcareers.msu.edu/links.html](http://medlabcareers.msu.edu/links.html)

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

**The complete program is available only at the Harrisburg Campus. Prerequisites offered at all other campuses and on-line**  
**MEDICAL LABORATORY TECHNICIAN Associate in Science Degree (#3486P)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 67)\***

General Education/Other Required		Major	
ENGL 101 English Comp I	3	PBT 100 Intro to Phlebotomy	2
ENGL 102 English Comp II	3	MLT 100 Orientation to MLT (FYS)	2
COMM 101 Effective Speaking	3	MLT 120 Hematology & Coagulation	4
Humanities/Arts elective	3	MLT 122 Immunology	3
Social/Behav Science elective	3	MLT 124 Immunohematology	4
Mathematics Elective	3	MLT 220 Clinical Microbiology I	4
Wellness	1	MLT 222 Clinical Chemistry	4

BIOL 111 Intro to Human Biology	3	MLT 224 Urinalysis & Body Fluids	2
CHEM 100 Principles of Chemistry	3	MLT 226 Clinical Experience I	5
	25	MLT 228 Clinical Experience II	5
		MLT 230 Clinical Microbiology II	4
		MLT 236 Clinical Lab Management	2
6/17		MLT 238 Clinical Capstone Project	1
			42

\* A grade of C or higher is required for ENGL 101, BIOL 111, PBT 100, CHEM 100 & all MLT courses

### RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part time students can complete this program by taking one or more courses each semester.

Summer I		Fall Semester I		Spring Semester I	
BIOL 111	3	CHEM 100	3	MLT 120	4
ENGL 101	3	ENGL 102	3	MLT 220	4
		MLT 100 (FYS)	2	MLT 222	4
		PBT 100	2	Wellness	1
		MLT 122	3		
Summer II		Fall Semester II		Spring Semester II	
MLT 124	4	Arts & Humanities Elective	3	COMM 101	3
MLT 224	2	MLT 226	5	MLT 228	5
MLT 230	4	MLT 236	2	MLT 238	1
		Mathematics Elective	3	Social & Behavioral Science Elective	3

## NURSE (RN)

Associate Degree - Gettysburg/Harrisburg/Lancaster/York (4-semester and 8-semester)

**Description of Occupation** - Nurses work to promote health, prevent disease, and help patients cope with illness. They are advocates and health educators for patients, families, and communities. When providing direct patient care, they observe, assess, and record symptoms, reactions, and progress; assist physicians during treatments and examinations; administer medications; and assist in convalescence and rehabilitation. Nurses also develop and manage nursing care plans; instruct patients and their families in proper care; and help individuals and groups take steps to improve or maintain their health. Nurses may be exposed to bloodborne pathogens and potentially hazardous materials.

Nurses need an aptitude for science and math. A respect for others, integrity, good communication skills, and acceptance of responsibility are essential. The ability to problem-solve and to commit to rigorous academic and clinical safety standards are necessary for success in nursing.

Positions in nursing require certain physical, emotional and cognitive abilities. A sample list is included on the Admission Criteria - Essential Qualifications document. Additionally, employers require a PA Child Abuse History Clearance and/or State Police Criminal Record Check.

Nursing requires the ability to apply knowledge of the human biological sciences, social and psychological sciences, and communication arts to provide health care must be demonstrated. Observation and problem-solving skills are used in planning and giving nursing care, and evaluating patients' responses to care. The ability to work well with others and to provide effective health teaching are needed skills. Safe administration of medications, use of equipment and various biomedical devices are required.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-nursing student and work with a pre-nursing advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) (or see a nursing advisor) for complete program admission criteria. All students must take the TEAS test to be eligible to apply for the clinical component.

**Length of Program and Degree Conferred** - The nursing program is 68 credits in length. Completion time can vary depending on a candidate's background, need for identified preparatory skills and coursework and the student's educational plan. There are 2 options for completing the nursing program. One option is 4 semesters of clinical coursework and the second option is 8 semesters of clinical course work.

An associate of science degree is awarded upon successful completion. Graduates are eligible to take the exam for RN licensure administered by the State Board of Nursing. The complete 4-semester program is offered at the Gettysburg, Harrisburg and Lancaster campuses. The complete 8-semester program is offered at the Harrisburg, Lancaster and York campuses. General education (prerequisite) courses can be taken at any campus. The program is accredited by the Accreditation Commission for Education in Nursing ([ACEN](#)).

**Places of Employment and Outlook** - Overall job opportunities for registered nurses are expected to be excellent, but may vary by employment and geographic setting. Nurses work in many settings, including hospitals, rehabilitation centers, long-term care centers, clinics, outpatient surgical centers, home health, occupational settings and schools. Advanced practice nurses may work independently.

**Salary Range for Geographical Area** – Median salary \$66,6600 in PA from [www.acinet.org](http://www.acinet.org) Jan 2018

**Educational Advancement** - Continue your education with a BSN from Alvernia College, Drexel University & Online, Eastern Mennonite University, Eastern University - St. Davids, Immaculata University - Accelerated & Online, Indiana University of PA, Millersville University, Penn State University - Harrisburg, Mont Alto, York, and York College. Advanced practice in a nursing specialty requires a master's



degree.

The nursing program at HACC has established dual admission agreements with Millersville University and Eastern Mennonite University to ensure seamless transition to the completion of the BSN within 12-18 months after graduation. Classes are offered at the University campuses as well as York and Harrisburg HACC campuses. University representatives are available on HACC campuses every month for further discussion. For specific questions or information on a particular college or university, contact a nursing advisor.

**Related Websites For Additional Information About The Profession**

[allnurses.com](http://allnurses.com) [www.CareersForNurses.com](http://www.CareersForNurses.com)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

<b>NURSING, Associate in Science Degree (#3456P)</b>		<b>PROGRAM REQUIREMENTS (TOTAL CREDITS = 68) FALL 2018</b>	
<b>General Education</b>		<b>Major</b>	
ENGL 101 English Composition I	3	NURS 140 Intro to Nursing Practice Concepts I	1
ENGL 102 English Composition II	3	NURS 141 Intro to Nursing Practice Concepts II	1
COMM 101 Effective Speaking	3	NURS 142 Health Assessment Concepts for Nursing Practice	3
Humanities/Arts elective (SPAN 104 recommended)	3	NURS 143 Concepts of Informatics in Nursing Practice	1
First Year Seminar (FYS)	1	NURS 144 Fundamental Concepts for Nursing Practice	3
BIOL 121 Anatomy & Physiology I	4	NURS 150 Holistic Health Concepts for Nursing Practice I	5
BIOL 122 Anatomy & Physiology II	4	NURS 151 Holistic Health Concepts for Nursing Practice II	4.5
BIOL 221 Microbiology	4	NURS 240 Adult Health Concepts for Nursing Practice I	2
MATH 103 College Algebra OR	3	NURS 241 Adult Health Concepts for Nursing Practice II	2.5
MATH 202 Intro to Statistics (4cr)	3	NURS 242 Family Health Concepts for Nursing Practice I	2.5
PSYC 101 General Psychology	3	NURS 243 Family Health Concepts for Nursing Practice II	2.5
	31	NURS 244 Advanced Behavioral Health Concepts for Nursing Practice	2.5
		NURS 250 Complex Health Concepts for Nursing Practice	2.5
		NURS 251 Leadership & Management Concepts for Nursing Practice	4
			37

NOTE: A grade of C or higher is required in all courses.

**FOR LPNS ONLY**

LPN Transitional Track students receive credits for NURS 140, 141, 144 by providing current unencumbered PA practical nursing license and official transcript showing successful completion of a practical nursing program.

Acceptance into the clinical component of the Associate Degree Nursing program as an LPN transitional track student is competitive and is based on published admission criteria and point system.

6/17

- The accepted time limit for science courses (HACC or transfer) for use in health career program requirements is 7 years.
- The student who enters the Associate Degree program as an LPN will have the opportunity to earn credit for Nursing 150, 242, 243, and 244 by completing the Assessment Technology Inc. (ATI) Proctored Assessments and scoring at a passing level, as determined by the nursing department
  - Nursing 150 - Fundamentals of Nursing ATI Proctored Assessment
  - Nursing 242- Obstetrical Nursing Care ATI Proctored Assessment
  - Nursing 243- Pediatric Nursing Care ATI Proctored Assessment
  - Nursing 244- Mental Health Nursing Care ATI Proctored Assessment

**Clinical course sequence by semester – for full-time students, courses and finals will be offered in two-part semesters - weeks 1-7 and weeks 8-14. Part-time students have same courses over the full 14 week semester. Note – 4-semester program semesters include Fall & Spring. The 8-semester program semesters include Fall, Spring and Summer.**

4-Semester Prog - Semester 1		Semester 2		Semester 3		Semester 4	
8-Semester Prog - Semesters 1 & 2		Semesters 3 & 4		Semesters 5 & 6		Semesters 7 & 8	
NURS 140	NURS 141	NURS 150	NURS 151	NURS 240	NURS 241	NURS 250	NURS 251
NURS 142	NURS 144			NURS 242*	NURS 243*	NURS 244*	
NURS 143				* NURS 242, 243, 244 can occur any time during these semesters			

**RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Summer I		Fall Semester I		Spring Semester I		Summer II	
BIOL 121 (Core C)	4	BIOL 122 (Core C)	4	ENGL 102	3	BIOL 221	4
ENGL 101	3	NURS 140	1	NURS 150 (W)	5	MATH 103 or 202 (Core C)	3 or 4
FYS Elective	1	NURS 141	1	NURS 151	4.5		
		NURS 142	3	PSYC 101 (Core B)	3		
		NURS 143	1				
		NURS 144	3				
Fall Semester II		Spring Semester II					
COMM 101	3	Arts/Humanities Elective	3				
NURS 240	2	NURS 243	2.5				
NURS 241	2.5	NURS 250	2.5				



NURS 242	2.5	NURS 251	4
NURS 244	2.5		

**RECOMMENDED SEQUENCE FOR PART-TIME STUDENTS**

Spring Semester I		Summer I		Fall Semester I		Spring Semester II		Summer II	
BIOL 121 (Core C)	4	BIOL 122 (Core C)	4	PSYC 101 (Core B)	3	BIOL 221	4	COMM 101	3
FYS Elective	1	NURS 141	1	NURS 150 (W)	5	NURS 151	4.5	ENGL 101	3
NURS 140	1	NURS 144	3					NURS 240	2
NURS 142	3							NURS 242	2.5
NURS 143	1								
Fall Semester II		Spring Semester III		Summer III					
MATH 103 or 202 (Core C)	3 or 4	ENGL 102	3	Arts/Humanities Elective	3				
NURS 241	2.5	NURS 243	2.5	NURS 251	4				
NURS 244	2.5	NURS 250	2.5						

**LPN Transitional Track (LPN to RN)**

Associate Degree - Gettysburg/Harrisburg/Lancaster//York

Students who have graduated from a practical nursing program and have a practical nursing license (unencumbered) from the PA State Board of Nursing can transition to the associate degree nursing program when they continue their education at HACC.

Prior to acceptance into nursing clinical courses, students will complete all of the admission requirements and first year supporting courses for the nursing program as indicated. Competence in dosage calculation must be demonstrated on admission to and for progression in the nursing program.

**Program Admission Criteria - Selective program.** Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-nursing student and work with a pre-nursing advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) (or see a nursing advisor) for complete program admission criteria. All students must take the TEAS test to be eligible to apply for the clinical component.

See the curriculum for Nursing, Associate in Science Degree above.

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

**NURSE – Practical Nurse (LPN)**

Certificate - Harrisburg/Lancaster

**Description of Occupation** - Practical nurses are integral members of the health care team. They function under the direction of a physician, dentist, or registered nurse in a variety of settings. Practical nurses meet the basic needs of patients by providing for comfort and safety through feeding, bathing, dressing, assisting with personal hygiene, and caring for their emotional needs. In addition, practical nurses administer medications, carry out therapeutic procedures such as vital signs, dressing changes, collecting specimens and observe/report symptoms and responses to treatment. Practical nurses may be exposed to bloodborne pathogens and potentially hazardous materials.

Practical nurses perform selected nursing acts using therapeutic communication techniques, the nursing process, and sound judgment based on knowledge and nursing skills. They provide consistent safe nursing care and participate as an effective member of the health care team. They accept responsibility for personal and professional continuing education and demonstrate accountability in nursing practices.

Practical nurses need to have excellent communication skills and be able to work in stressful and crisis situations. Problem solving skills, organizational skills, and an ability to prioritize and work well with others is essential. Other vital characteristics include motivation, integrity, maturity and ability to accept constructive criticism.

**Program Admission Criteria - Selective program.** Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-nursing student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) (or see a practical nursing advisor) for complete program admission criteria. All students must take the TEAS test to be eligible to apply for the clinical component.

**Length of Program and College Certificate Conferred** - The practical nursing program is 43 credits in length. **This is a highly competitive program which requires completion of general education courses prior to beginning the clinical portion of the program.** The clinical component is sequenced in 3\* semesters (January through December), with the awarding of a certificate in practical nursing upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is offered at the Harrisburg and Lancaster campuses. Some required courses offered at other campuses and sites. Clinical sites are within an hour driving distance of the campus.

After successful completion of the program, graduates are eligible to take the NCLEX-PN exam to be licensed by the state Board of Nursing. Many practical nursing graduates seek additional education to become a registered nurse or pursue HACC's Health Science degree. The LPN transitional track at HACC offers and opportunity for LPNs to get an associate degree in nursing and to take the RN licensure exam. The program is accredited by the Accreditation Commission for Education in Nursing ([ACEN](#)).

**Places of Employment and Outlook** – Always on Top 25 Fastest Growing and Top 25 Occupations with the Most Openings. Practical nurses are employed in a variety of health care settings, including long-term care facilities, outpatient clinics, doctors' offices, home care and some hospitals.

**Salary Range for Geographical Area** – Median salary \$45,290 in PA from [www.acinet.org](http://www.acinet.org) Jan 2018.

**Related Websites For Additional Information About The Career** - [www.napnes.org/](http://www.napnes.org/)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

**PRACTICAL NURSING Certificate Program (#327P)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 43)**

General Education		Major	
ENGL 101 English Comp I	3	NURS 100 Fundamentals of Pract Nurs	10
PSYC 101 General Psychology	3	NURS 101 Concepts in Pract Nursing I	10
SOCI 201 Intro to Sociology*	3	NURS 102 Concepts in Pract Nursing II	<u>10</u>
BIOL 100 Basic Microbiol <u>or</u> BIOL 221 Microbiology (4 cr)	1		
BIOL 111 Intro to Human Biol <u>or</u> BIOL121 Anatomy & Phys I (4 cr)	3		
	13		30

**Program-specific courses** (taken upon acceptance into the clinical phase)

Spring	Summer	Fall	
NURS 100	NURS 101	NURS 102	

**The complete program is available only at the Lancaster and Harrisburg campuses. Prerequisites offered at all other campuses and on-line.**

**To see TIME COMMITMENTS FOR PRACTICAL NURSING STUDENTS - see the Health Careers website (go to Practical Nursing under Programs Offered).**

**NURSE – PRE-HOSPITAL REGISTERED NURSE (PHRN)**

Noncredit Certificate Course – Harrisburg Campus (Public Safety Center)

This course is designed to enhance the currently licensed Pennsylvania Registered Nurse's (RN) already existing professional and clinical experience. Although not required, a solid foundation in Anatomy & Physiology, Pharmacology and Cardiology is recommended.

Tuition for this course offering is \$1,500.00. This price includes all required textbooks. Those students who successfully complete our course will be eligible to take the Pennsylvania Department of Health certification exam(s). Successful completion of the course will also include certification in Advanced Cardiac Life Support (ACLS), Pediatric Advanced Life Support (PALS), International Trauma Life Support (ITLS), and Emergency Vehicle Driver Training (EVDT).

This course is offered as a non-credit program. All candidates are required to schedule an interview with the Program Coordinator prior to acceptance.

The classroom portion is 24 sessions (Tuesdays 0800-1600) – 192 hours total. In addition, there are 144 clinical hours scheduled at the student's convenience.

**For more information and to schedule your interview, contact the EMS Education Unit at HACC at 717-780-2618 or e-mail the Program Coordinator, Bob Stakem, at [rpstakem@hacc.edu](mailto:rpstakem@hacc.edu). (North Hall 101)**

**NURSE – RN/LPN RE-ENTRY or RN/LPN REFRESHER**

Noncredit Certificate Course – Harrisburg Campus

This program is designed for the RN and LPN who want to reinstate their nursing license and/or update their knowledge and skills. Through clinical experience and classroom lectures, nurses will have the opportunity to refresh their skills, build their confidence and gain insight into new techniques and technology. The curriculum focuses on the nursing process, current nursing practices, trends, ethical/legal issues, pharmacology, and clinical management of patients. Attention is given to a variety of aspects including: assessment skills, care plans, infection control, technological advancements, quality assurance, and drug administration.

Program requirements include: valid PA RN/LPN license; malpractice insurance; current CPR certification; physical examination; current immunization status; PPD (two-step); PA State Police criminal background check; clinical attire; current health insurance information.

The 9-week, 212-hour program consists of 88 hours of lecture and 140 hours of clinical time.

**Contact Jackie Foster     [jafoster@hacc.edu](mailto:jafoster@hacc.edu)     717-221-1354 or (800) 222-4222 ext 211354**

**NURSE AIDE**

Noncredit Certificate Course - **Statewide**

**Description of Occupation** - A nurse aide (NA) or nursing assistant is a compassionate person who sees the purpose in his/her life to provide care and assistance to residents in a variety of long-term care settings. These NAs always work under the supervision of a licensed nurse and ensure comfort, safety, and the best state of wellness possible to all residents.

Some of the basic tasks they perform include: taking and recording vital signs; bathing the resident/client; assisting with range of motion exercises; changing bed linens; assisting with oral care; hair and nail care, help with feeding; infection prevention and safety measures.

Aside from these tasks, one of the most fulfilling opportunities a nurse aide will have is talking to and listening to the resident. These people are often sick, scared, in pain, confused, sad, lonely, and experiencing very stressful situations. A listening ear and a hand to hold can often make a world of difference in someone's day and life!

Nurse aides perform all types of personal care for residents who cannot care for their physical needs. They must have an understanding of the aging process and a desire to be sensitive to the needs of the aging population. They should have excellent verbal skills to communicate between the resident and other members of the health care team. **The nurse aide must have the ability to stand, walk, lift, and pull. They will be providing physical and psychosocial care of residents with long-term illnesses, and residents who, due to changes of aging, are no longer able to care for themselves.**

**Program Admission Criteria** - This is a noncredit certificate course. A college (credit) application is not required for this program. Check the [Health Careers website](#) for complete program admission criteria. Inquiries for the program at the noncredit health care office at Harrisburg Campus, Midtown I, 1523 N. 4<sup>th</sup> Street, Room 218, Harrisburg, PA 17102 or email [natp@hacc.edu](mailto:natp@hacc.edu).

**Veterans Education Benefits** - Non-credit healthcare programs which result in a certificate upon completion are approved for veterans' education benefits. VA benefits are based on the length of the class and the number of clock hours per week. Benefits are determined by the Department of Veterans Affairs. Tuition must be paid in advance since VA benefits are disbursed on a post-payment basis. Information on veterans' education benefits is available from the Military and Veterans Affairs Office, Cooper 204B, 717-780-2331 or e-mail [vaoffice@hacc.edu](mailto:vaoffice@hacc.edu).

**Length of the Program** - HACC's nurse aide certification program (approved by the Pennsylvania Department of Education) is offered statewide and is 120 hours in length and can be completed within 30 days. Upon successful completion of the program, students receive a certificate of completion, a pin, PA Nurse Aide Registry registration forms and course records. At that time, nursing assistants will also be eligible for certification by the American Red Cross. *You must be 16 to take this exam. However many healthcare facilities may require employees to be age 18 and have a high school diploma or GED.*

**Places of Employment and Outlook** - BLS for USA - Employment of nurse aides, orderlies, and attendants is expected to grow by 20 percent from 2010 to 2020, faster than the average for all occupations. Because of the growing elderly population, many nursing aides, orderlies, and attendants will be needed in long-term care facilities, such as nursing homes. Some of these facilities will pay for the training.

**Salary Range** - Median salary is \$30,483 for "certified nursing assistants" in Harrisburg from [www.salary.com](http://www.salary.com) Jan 2018

**Educational Advancement** - Upon completion of this program and with completion of a GED or high school diploma, a student may take the Senior Health Care Workplace Assistant program, the practical nurse program or the registered nurse program.

**Related Websites For Additional Information About The Career** - [www.directcarealliance.org/](http://www.directcarealliance.org/)

**Contact the Nurse Aide Training Program office [natp@hacc.edu](mailto:natp@hacc.edu)**  
 Harrisburg Campus, Midtown I, 523 N. 4<sup>th</sup> Street, Room 218, Harrisburg, PA 17102  
 To register for a class go to <https://vc.hacc.edu/> or find schedules and information  
<http://www.hacc.edu/ProgramsandCourses/Programs/HealthCareers/Nurse-Aide.cfm>

**CURRICULAR CONTENT:**

Nursing Theory	Privacy	Personal Hygiene	First Aid
Safety	Act 14 – Abuse	Sub-acute Care	Changes of Aging
Communication	Vital Signs – TPR/BP	Psychosocial	Body Functions
Individuality	Restorative Care	Dementia	Nurse Aide Role
Infection Control	Activities of Daily Living	Death & Dying	Employability Skills
			Resident Rights

**PARAMEDIC**

Certificate – Harrisburg

*For Critical Care Emergency Medical Technician – Paramedic (CCEMT-P) – See below.*

**Description of Occupation** - The advanced-level curriculum is intended to prepare students to function on an ambulance (MICU or squad) or aeromedical service in a pre-hospital setting. Paramedics perform all skills at the BLS level plus invasive advanced skills such as IV's, medicine administration, interpretation of heart rhythms-EKG's and advanced airway management. Paramedics may be exposed to bloodborne pathogens and potentially hazardous materials.

Paramedics possess the knowledge, skills, and attitudes consistent with the expectations of the public and the profession. Paramedics recognize that they are an essential component of the continuum of care and serve as linkages among health resources. As an advocate for patients, paramedics seek to be proactive in affecting long term health care by working in conjunction with other provider agencies, networks, and organizations.

The paramedic must be a confident leader who can accept challenge and a high degree of responsibility entailed in the position. The paramedic must have excellent judgment and be able to prioritize decisions and act quickly in the best interest of the patient, must be self-disciplined, be able to develop patient rapport, interview hostile patients, maintain safe distance, and recognize and utilize communication unique to diverse multicultural groups and ages within those groups. The paramedic must have knowledge and practical application of medications, keeping abreast of all contraindications to the administration of specific drugs based on the patient's medical history.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-paramedic student and work with your advisor to apply to the clinical/core component of the

program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The emergency medical technician-paramedic certificate program is 35 credits, sequenced in 4 semesters, with the awarding of a certificate upon successful completion. **Daytime, evening and on-line options are available.** The complete programs are available only at the Harrisburg Campus. Paramedic graduates sit for the National Registry of EMT-Paramedics (NREMT-P) exam. There is a computer-based exam as well as a practical/oral exam. Upon passing the exam, they are Nationally Registered Paramedics, as well as certified by the PA Dept. of Health, Bureau of EMS as a Paramedic in PA. **The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).**

**Places of Employment and Outlook** – Consistently on Top 25 Fastest Growing Occupations and Occupations with the Most Openings. Employment at advanced life support/paramedic services (for profit, non-profit, private, municipal and hospital based) throughout central and eastern Pennsylvania. Some facilities will pay for the candidate’s training.

**Salary Ranges for Geographical Area** - \$39,803 median salary in Harrisburg Jan 2018 from [www.salary.com](http://www.salary.com) for paramedics

**Related Websites For Additional Information About The Career** - [WWW.ROLLWITHIT.com](http://WWW.ROLLWITHIT.com)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)  
 Program questions? Contact **Craig Davis** [cadavis@hacc.edu](mailto:cadavis@hacc.edu)

**PARAMEDIC – EMT-P, Certificate Program (#333P)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 35)**

Major		Select from one of the following options:	
EMS 131 EMT – Basic	3	EMS 236 ALS Hospital Exp III	1
EMS 132 EMT-Basic Field Experience	3	EMS 237 ALS Field Experience	3
EMS 231 Adv Life Support I	5	EMS 243 Advanced Life Support	2
EMS 232 ALS Hospital Exp I	1	EMS 244 ALS Special Topics	2
EMS 233 Adv Life Support II	6	EMS 245 ALS Summative Evaluation	1
EMS 234 ALS Hospital Exp II	1		31
EMS 235 Adv Life Support III	3		
		<b>Option 1</b>	
		AH 150 Intro Human Illness /Disease	3
		BIOL 111 Intro to Human Biology	3
		<b>Option 2</b>	
		BIOL 121 Anatomy & Physiology I	4
		<b>Option 3</b>	
		EMS 200 Intro to Advanced Life Support	5

**Program-specific course sequence** (taken upon acceptance into the clinical phase)

**Prerequisites:** EMS 200 or BIOL 111 and AH 150 or BIOL 121

Summer I	Fall I	Spring I
EMS 131	EMS 231	EMS 233
EMS 132	EMS 232	EMS 234

Summer II	Fall II
EMS 235	EMS 243
EMS 236	EMS 244
EMS 237	EMS 245

**Paramedic Courses**

Campus Options	Paramedic Classes / Labs	Competency Testing
<i>Evening Class Harrisburg Campus</i>	Tue / Thu Evenings 6:45-10 pm	Some Saturdays
<i>Blended (Online) option</i>	Clinical lab on campus one day per week (days, times vary)	Some Saturdays or weekdays (varies)

The complete programs are available only at the Harrisburg campus. Prerequisites offered at all other campuses and on-line.

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**PARAMEDIC - Critical Care Emergency Medical Transport Paramedic (CEMT-P)**

Noncredit Certificate Course – Harrisburg Campus (Public Safety Center)

The course prepares paramedics and nurses to be critical care transport team members. The curriculum bridges the gap between pre-hospital and hospital critical-care environments. To enroll, students must have a minimum of two years as an active health care professional (EMT-P, RN) and current certifications in CPR, ACLS, PHTLS or ITLS or TNCC, PALS.

The classroom portion is three months (Thursdays 0800-1700). For successful completion, you must attend every class and pass a comprehensive written exam at the end of the course. You will receive a renewable certificate from UMBC upon successful completion. The certification will be valid for three years.

Questions? Contact the EMS Education Unit at 717-780-2458 or [rberini@hacc.edu](mailto:rberini@hacc.edu).

**PERSONAL CARE HOME ADMINISTRATOR**

Noncredit Course – Harrisburg

HACC offers the full 100-hour course for new administrators and also offers individual courses to meet the requirements of the 24 annual CEU’s for existing administrators. The course has been approved by the PA Department of Public Welfare to meet the requirements set forth in the new regulations. This program is designed to strengthen health and safety requirements and more adequately address all of

the issues surrounding resident care. Course Cost: \$1,480 for the full 100-hour course or the program topics can be taken individually to meet the continuing education requirement (24 hours annually).

**Veterans Education Benefits:** Non-credit Healthcare Programs which result in a certificate upon completion are approved for veterans education benefits. VA benefits are based on the length of the class and the number of clock hours per week. Benefits are determined by the Department of Veterans Affairs. Tuition must be paid in advance since VA benefits are disbursed on a post-payment basis. Information on veterans' education benefits is available from the Military and Veterans Affairs Office, Cooper 204B, 717-780-2331 or e-mail [vaoffice@hacc.edu](mailto:vaoffice@hacc.edu).

**The Personal Care Home Administrator's Course Requirements:**

The administrator shall have one of the following qualifications:

- A license as an RN from the Dept. of State
- An associate's degree or 60 credit hours from an accredited college or university
- A license as an LPN from the Dept. of State and 1 year of work experience in a related field
- A license as a nursing home administrator from the Dept. of State
- For a home serving 8 or fewer residents, a GED or high school diploma and 2 years direct care or administrative experience in the human services field.

*This course may be taken in its entirety for new administrators or it can be broken down into parts to cover the 24 hours of required continuing education units as long as two full years have passed since taking the 120-hour course.*

For additional information, [nchealth@hacc.edu](mailto:nchealth@hacc.edu)

**PHARMACY TECHNICIAN**

Noncredit Certificate – Harrisburg/Lancaster/Lebanon

**Description of Occupation** - The Pharmacy Technician assists the Pharmacist in a variety of tasks from accepting and screening medication orders, preparing labels and medications, maintaining drug inventory quality and levels, performing insurance billing, preparing admixtures and compounding medications, maintaining patient records to participating in quality control processes. The Pharmacy Technician works under the direct supervision and authority of a Pharmacist.

Pharmacy Technicians should exhibit a professional demeanor; have effective oral and written communication skills; an aptitude for math and science; be self-directed and responsible for their own actions; motivated to learn; work effectively as a member of the health care team; enjoy working with others as well as receive constructive criticism and take verbal direction; understand and respect patient confidentiality issues; understand medical terminology; and knowledge of computer operations. For more information regarding physical abilities and behavioral characteristics required for a career as a Pharmacy Technician, please refer to the Essential Abilities.

**Program Admission Criteria** - *This is a noncredit course.* A college application, school transcripts and placement testing are not required. High school diploma or GED is required. Student must be at least 18 years of age. State Police Criminal Record Check and drug screening may be required for employment in the healthcare field but are not required to enter this program.

**Length of Program** - *This is a noncredit program.* The program is designed to be completed within six months, just one evening class per week. It is offered at the Harrisburg, Lancaster and Lebanon campuses. Quizzes and exams are given at the discretion of the instructor for each class. A Certificate of Completion is awarded after successfully completing this program. The program is designed to lead directly to an occupation. Students who complete this program successfully can pursue certification in this field as offered by the PTCB (Pharmacy Technician Certification Board). Field experience is recommended to further help prepare students for this certification exam. Students may also elect to pursue an advanced degree in pharmacy technology.

**Places of Employment and Outlook** – Pharmacy technicians work in a variety of settings such as hospital pharmacies, retail pharmacies, extended-care facilities, home health agencies, and mail order pharmacy distributors. HACC does not offer assistance in job placement for this program.

**Salary Range for Geographical Area**–Median salary \$32,152 in Harrisburg Jan 2018 from [www.salary.com](http://www.salary.com) for pharmacy technician I

**Related Websites For Additional Information About The Career**

[www.ptcb.org](http://www.ptcb.org) [www.papharmacists.com](http://www.papharmacists.com) [www.pharmacytechnician.com](http://www.pharmacytechnician.com) [www.aphanet.org](http://www.aphanet.org)

**Program questions? Contact: Noncredit Healthcare Education [nchealth@hacc.edu](mailto:nchealth@hacc.edu)**

**Required Courses – 114 Total Hours - It is offered at the Harrisburg and Lancaster Campuses and on line**

Pharmacy Practice	Pharmaceutical Law & Ethics
Pharmacy Science	Database Management for the Pharm Tech
Pharmacy Tech Math	Job Readiness for the Healthcare Professional

**PHLEBOTOMY TECHNICIAN**

Noncredit Certificate Course – all campuses

**Description of Occupation** - A phlebotomy technician is a customer oriented healthcare professional who is responsible for the proper identification, collection, and acceptance of specimens for clinical laboratory testing. Other duties include performing selected tests and the handling and processing of specimens in a variety of healthcare settings.



The phlebotomy technician must be able to read requisitions, discriminate colors and record information; communicate effectively and sensitively in order to elicit information; assess non-verbal communication and be able to transmit the information to all members of the health care team; manifest all the skills necessary to manipulate instruments and equipment; perform phlebotomy (drawing a blood specimen from the vein) safely and accurately; demonstrate the emotional health required for full utilization of their intellectual abilities; and recognize emergency situations and be able to take the appropriate action. Phlebotomists may be exposed to bloodborne pathogens and potentially hazardous materials. Phlebotomists should demonstrate qualities of accuracy, dependability, responsibility, and self-motivation. The phlebotomist must like working directly with patients and must be committed to quality health care. Phlebotomists must be able to work well under pressure and have excellent oral communication skills.

**Program Admission Criteria** – High School Diploma or GED and 18 years of age

**Program Length:** 100 total classroom and lab hours and 80 clinical hours. (Full time day classes are 7 weeks in length and part time, evening classes are 17 weeks in length.)

**Employment options after completion:** You will be able to work in a variety of settings including hospitals, medical and diagnostic laboratories, blood donor centers and doctor's offices.

**Program cost:** \$1,245 (includes the cost of textbook and certification exam). There is an additional \$25 fee for liability insurance coverage. Total Cost: \$1,270 (Financial aid is not available for this program.)

**Salary Range for Geographical Area** – Median salary \$31,736 in Harrisburg Jan 2018 from www.salary.com for phlebotomist.

**Questions? Contact Jackie Foster at [jafoster@hacc.edu](mailto:jafoster@hacc.edu) or 717-221-1354**

To register for a class go to <https://vc.hacc.edu/> or find schedules and information

### PHYSICIAN OFFICE ASSISTANT

Noncredit Certificate Program – Gettysburg/Harrisburg/Lancaster/Lebanon/York

This program prepares the student for entry-level position in an outpatient healthcare setting such as a medical practice or health-related call center. Students will become familiar with the general workflow of an outpatient medical practice, gain an understanding of medical insurance, and will be exposed to basic PC skills and the use of electronic records. Students will then put the newly acquired knowledge to use when performing a 160-hour, unpaid practicum experience.

**Required Courses – 332 Total Hours (includes the 160-hour practicum)**

Intro to Healthcare	Patient Triage for Physician Office Assistant
Medical Office Operations	Intro to Healthcare Applications
Intro to Medical Insurance	Practicum

**Questions? Contact Noncredit Healthcare Education [nchealth@hacc.edu](mailto:nchealth@hacc.edu) 717-221-1354**

### PRE HEALTH PROFESSIONS

You can complete the first two year of a pre-health profession program, such as chiropractic, dentistry, medicine, pharmacy, veterinary, physical therapy, occupational therapy, and physician assistant, at HACC and transfer to a 4-year institution OR the necessary prerequisite courses to transfer into a nursing or allied health program at another college. Since the requirements of senior institutions vary widely, it is essential to choose an intended transfer institution as soon as possible and carefully follow the program described in that college's catalog.

**PRE HEALTH PROFESSIONS, Associate in Science Degree - Offered at all campuses (#3150)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 60) NEW FALL 2018**

ENGL 101 English Composition I	3	Transfer Electives – select from the following (15 credits required):	
ENGL 102 English Composition II	3	BIOL 101 Gen Biol I	4
COMM 101 Effective Speaking	3	BIOL 102 Gen Biol II	4
Humanities/Arts elective	3	BIOL 122 A&P II	4
Wellness	1	BIOL 215 Intro to Genetics	4
AH 140 Intro to Allied Health (FYS)	3	BIOL 221 Microbiology	4
BIOL 105 Medical Terminology	3	CHEM 101 Gen Inorganic Chem	4
BIOL 121 A&P I	4	CHEM 102 Gen Inorg Chem & Quan Analy	4
BIOL 122 A&P II OR	4	CHEM 203 Org Chem I	4
CHEM 101 Gen Inorganic Chem		CHEM 204 Org Chem II	4
MATH 103 College Algebra	3	MATH 104 Trig	4
PSYC 101 Gen Psyc	3	MATH 119 Pre-Calc	3
SOCI 201 Intro to Soc	3	MATH 121 Calc I	4
		MATH 202 Intro to Stats	4
Choose general education / program elective courses appropriate for the transfer college.		PHYS 201 Gen Physics I	4
		PHYS 202 Gen Physics II	4

**General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)**

### RADIOLOGIC TECHNOLOGIST (X-ray)

Associate Degree – Lancaster

**Description of Occupation** - Radiographers produce X-ray images of all parts of the human body to aid physicians in the diagnosis of medical conditions. They prepare and position patients/clients, expose and develop radiographic films, or produce images electronically with computed radiography or digital imaging equipment. Additional diagnostic imaging techniques such as computed tomography,

magnetic resonance imaging, special angiographic and interventional procedures, ultrasound, and nuclear medicine procedures may also be performed. Radiographers may be exposed to bloodborne pathogens and potentially hazardous materials.

Excellent oral and written communication skills are important for the radiographer. A radiology career involves patient contact during the procedures. In a hospital setting there is considerable contact with various physicians and other health care professionals. Radiographers should be flexible with a desire to perform multiple tasks. Radiographers must have the ability to stand, lift, push, and pull objects. With an increase in the computerization of equipment, computer experience is an advantage. Radiographers must be skilled in the proper use of and the maintaining of radiation equipment, observing and following safety procedures, and the maintaining of patient/client records. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, (312) 704-5300, (<http://www.jrcert.org/>). Graduates are eligible to sit for the American Registry of Radiologic Technologists (ARRT) certification examination in radiography. Prerequisite courses for either program can be taken at any HACC location.

**Program Admission Criteria** *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-rad tech student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The radiologic technology program is 80 credits, with the awarding of an associate in science degree upon successful completion. The entire program can be completed in six semesters, provided the candidate has met the pre-requisites for admission to the program. The clinical component takes place during the last five semesters of the program. Students are assigned to clinical sites at local participating hospitals and imaging facilities arranged by HACC through the Lancaster Campus. The complete program is offered at the Lancaster campus. Some required courses offered at other campuses and sites. Graduates are eligible to sit for the American Registry of Radiologic Technologists (ARRT) certification examination in radiography.

**Places of Employment and Outlook** – On Top 25 Fastest-Growing Occupations and Top 25 Occupations with the Most Openings lists for the US.

**Salary Range for Geographical Area** – Median salary \$51,794 in Lancaster Jan 2018 from [www.salary.com](http://www.salary.com).

**Related Websites For Additional Information About The Career**

<https://www.asrt.org/> [www.arrt.org](http://www.arrt.org)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)

**RADIOLOGIC TECHNOLOGY, Associate in Science Degree (#376P)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 75) NEW FALL 2018**

General Education		Major (Clinical)			
ENGL 101 English Composition I	3	RADT 100 Intro to Rad Procedures	3	RADT 201 Rad Procedures II	3
ENGL 102 English Composition II	3	RADT 102 Intro to Rad Tech	4	RADT 202 Imaging Equipment	2
COMM 203 Interpersonal Communic	3	RADT 105 Rad Protection & Biology	2	RADT 203 Rad Tech Clinical II	3
Social & Behavioral Science Elective	3	RADT 106 Rad Tech Clinical Intro	3	RADT 205 Rad Pathology	2
First Year Seminar (FYS)	1	RADT 107 Rad Procedures I	3	RADT 207 Rad Tech Clinical III	3
Wellness	1	RADT 108 Radiation Charact & Product	3	RADT 208 Imaging and Processing	3
MATH 103 College Algebra	3	RADT 109 Rad Tech Clinical I	2	RADT 209 Image Analysis	2
BIOL 121 Anatomy & Physiology I	4	RADT 111 Intro to Radiation Sciences	3	RADT 210 Intro to Comput Tomography	1
BIOL 122 Anatomy & Physiology II	4			RADT 211 Rad Tech Clinical IV	3
Humanities & Arts Elective	3		23	RADT 212 Rad Tech Seminar	2
	28				24

C or better required in all BIOL, COMM, ENGL, MATH & RADT courses.

Rev 10/17

Students are assigned to clinical sites at local participating hospitals and imaging facilities arranged by HACC through the Lancaster Campus. The complete program is offered only at the Lancaster campus. Some required courses offered at other campuses and sites.

**Suggested course sequence**

Fall	Spring	Summer	Fall	Spring	Summer
BIOL 121	BIOL 122	RADT 107	Hum/Arts Elective	ENGL 102	RADT 205
ENGL 101	COMM 203	RADT 108	RADT 201	RADT 207	RADT 210
FYS elect	RADT 100	RADT 109	RADT 202	RADT 208	RADT 211
MATH 103	RADT 105		RADT 203	RADT 209	RADT 212
RADT 102	RADT 106		Wellness	Soc/Beh Sci Elective	
RADT 111					

**COMPUTED TOMOGRAPHY (CT)**

The Radiologic Technology program offers courses in Computed Tomography (CT). Four of the courses are offered as on-line didactic instruction, and two are clinical education/lab courses. If you are interested in this program – select *Health Science* as your major.

The didactic courses will prepare radiologic technologists for the American Registry of Radiologic Technologist's (ARRT) post primary certification examination in CT and can be taken together or individually for category A CE which satisfies all of the biennium ARRT requirements.

**Students must be registered or registry eligible in one of the following ARRT primary certifications (Radiography, Radiation Therapy, or Nuclear Medicine Technology) in order to be eligible to register for the courses.**

**Fall semester**

RADT 222 Computed Tomography Procedures, Patient Care, and Safety I (3 credits)

RADT 224 Computed Tomography Sectional Anatomy & Pathology (3 credits)



RADT 220 Computed Tomography Lab/Clinical (1.5 credits)

**Spring semester**

RADT 223 Computed Tomography Procedures, Patient Care and Safety II (3 credits)

RADT 225 Computed Tomography Physics, Instrumentation, and Imaging (3 credits)

RADT 221 Computed Tomography Clinical (2 credits) (16 hours a week with flexible scheduling)

**Check the Health Careers website for additional information or contact Rebecca Shoener, r1shoene@hacc.edu, 717-358-2870.**

**RADIOLOGY INFORMATICS SPECIALIST (PACS Administrator)**

Associate in Applied Science Degree - Lancaster

**Description of Occupation** – Radiology Informatics, also called imaging informatics, combines information science, computer science and healthcare to manage the transfer, storage and retrieval of healthcare images and information in the Picture Archiving and Retrieval system (PACS) and the Radiology Information system (RIS).

A Radiology Informatics professional sometimes called a PACS administrator needs to be able to effectively work as a project manager, coordinating vendor, and local healthcare resources. Knowledge of imaging workflow and imaging procedures is necessary for a successful PACS professional.

Courses introduce students to HL7, DICOM, basic computer hardware, networking, project management, enterprise integration, PACS clinical opportunities, and include labs in a real PACS environment.

**Program Admission Criteria** *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-rad tech student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** – 69 credits with awarding of an associate in applied science degree upon successful completion. The complete program is offered only at the Lancaster Campus. Other required courses are offered at other campuses and sites as well as online. Students are eligible and prepared to take all three levels of certification exams through the PACS Administrators Registry and Certification Association (PARCA) before graduation. Additionally, graduates receive three-points in the Academic Education Category towards the required seven-point qualification system for taking the American Board of Imaging Informatics Certification (ABII). Graduates are eligible to take the ABII with two levels of PARCA certification and two years' work experience in the field.

**Places of Employment and Outlook** - This recent addition to the job market is already expected to have a higher than average growth rate. Projections are showing a nearly 40% increase over the next ten years, and this is expected to continue as more health service providers switch to electronic image archives. PACS administrators work in medical imaging and information technology settings that utilize digital imaging, PACS, and Radiology Information System (RIS). They can also work in PACS equipment retail, PACS sales, and PACS support services.

**Salary Range for Geographical Area** – Median salary \$80,152 for PACS Administrator in Lancaster from Salary.com Jan 2018

**Related Websites for Additional Information About the Career**

[American Board of Imaging Informatics](#) (ABII)

[PACS Administrators Registry and Certification Association](#) (PARCA)

**Questions? Contact Tami Burkholder** [TLBURKHO@HACC.EDU](mailto:TLBURKHO@HACC.EDU) **717-358-2837 or (800) 222-4222 ext 312837**

**RADIOLOGY INFORMATICS, Associate in Applied Science Degree (#3786) FALL 2018**

**PROGRAM REQUIREMENTS (TOTAL CREDITS =69)**

General Education		Major Requirements		Other Required Courses	
ENGL 110 Foundations of Professional Writing	3	RADI 100 DICOM & HL7 I	2	BIOL 111 Intro to Human Bio	3
COMM 203 Interpersonal Communic First Year Seminar (FYS)	3	RADI 101 DICOM & HL7 II	3	CIS 105 Intro to Software	3
Social & Behavioral Science Elective Wellness	1	RADI 102 RADI Quality Control, Regs & Security	3	CIS 140 Intermed Micro Database	3
	3	RADI 103 PACS Interface & Systems Analysis I	2	CNT 120 Network Comm Tech I	3
	1	RADI 201 Rad Informatics Project Mgmt I	3	ELEC 125 Intro PC Technology	3
	11	RADI 202 PACS Interface & Systems Analysis II	3	RADT 104 Into to Rad for Informat	4
		RADI 203 Rad Informatics Advanced Concepts I	4	RADT 110 Rad Basics for Informat	4
		RADI 204 Rad Informatics Advanced Concepts II	4	SPAN 104 Spanish for Healthcare	3
		RADI 205 RADI Project Management II	2		26
		RADI 210 Rad Informatics Clinical I	3		
		RADI 211 Rad Informatics Clinical II	3		6/17
			32		

*Note: Courses in the following disciplines require a grade of C or higher: COMM, BIOL, MATH, RADT, CNT, CIS, ELEC and RADI*

**RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Fall Semester I		Spring Semester I		Summer I	
CIS 105	3	BIOL 111	3	RADI 102	3
CNT 120	3	COMM 203	3	RADI 103	2
ENGL 110	3	RADI 101	3	Wellness	1
FYS Elective	1	RADT 110	4		
RADI 100	2				
RADT 104	4				
Fall Semester II		Spring Semester II		Summer II	
CIS 140	3	ELEC 125	3	RADI 204	4

RADI 201	3	RADI 203	4	RADI 211	3
RADI 202	3	RADI 205	2		
Social/Behavioral Science Elective	3	RADI 210	3		
SPAN 104 (Core A)	3				

## RESPIRATORY THERAPIST

Associate Degree – Harrisburg

**Description of Occupation** - Respiratory therapists work with all kinds of patients, from the critically ill accident victim on a mechanical ventilator, to the elderly person suffering from chronic obstructive pulmonary disease, to the child struggling to cope with an asthma attack, to the premature infant born with underdeveloped lungs. In the area of diagnosis, respiratory therapists (RT's) measure the capacity of a patient's lungs to determine if there is impaired function. They draw and analyze blood specimens to determine the levels of oxygen, carbon dioxide, and other gases in order to assess the best course of treatment for a particular patient. Once diagnosed, the RT is responsible for treating patients and providing therapy that will help them recover their lung function. RT's also employ mechanical ventilation for treating patients who cannot breathe adequately on their own and administer medications in aerosol form to help alleviate breathing problems and help prevent respiratory infections. Respiratory therapists may be exposed to bloodborne pathogens, potentially hazardous materials and ionizing radiation.

Respiratory therapists must be sensitive to the needs of patients who have serious physical impairments. They work well as members of the health care team and have superior communication skills to deal with other members of the health care team, patients, and their families. Attention to details and the ability to follow instructions carefully are prerequisites for respiratory therapists.

Most respiratory therapists work in hospitals where they perform intensive care, critical care, and neonatal procedures. They are also typically a vital part of the hospital's lifesaving response team that handles patient emergencies. Respiratory therapists function effectively as members of the health care team; think critically; and have excellent communication skills.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-respiratory student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The respiratory therapist program is 71 credits, including 5 clinical semesters, with the awarding of an associate in science degree upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is offered at the Harrisburg campus. Prerequisites offered at all other campuses and on-line. The respiratory therapist program uses local healthcare facilities in the Dauphin, Cumberland, and York County areas, however, the student may be required to travel to other areas in order to meet the learning objectives. Questions regarding these rotations should be discussed with the Program Director, Prof. Aumiller (see contact information below). Graduates are eligible to become a registered respiratory therapist (RRT). The program is accredited by the Commission on Accreditation for Respiratory Care ([www.coarc.com](http://www.coarc.com)), 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835. The program goal is to prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavioral) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).

**Places of Employment and Outlook** – Consistently on Top 25 Fastest-Growing and Top 25 Occupations with the Most Openings lists. Growth in the middle-aged and elderly population will lead to greater demand for respiratory therapy services and treatments, mostly in hospitals and nursing homes.

**Salary Range for Geographical Area** - \$62,765 median salary for Registered Respiratory Therapists in Harrisburg from salary.com Jan 2018.

**Related Websites For Additional Information About The Career**

[American Association for Respiratory Care \(AARC\)](http://www.aarc.org) [www.aarc.org](http://www.aarc.org)

[Commission on Accreditation for Respiratory Care \(CoARC\)](http://www.coarc.com) [www.coarc.com](http://www.coarc.com)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)  
 Program questions? Contact **Curtis Aumiller, Program Director** [rcaumill@hacc.edu](mailto:rcaumill@hacc.edu)

**RESPIRATORY THERAPIST, Associate in Science Degree (#392P)**

**PROGRAM REQUIREMENTS (TOTAL CREDITS = 71)**

Required General Education			
ENGL 101 English Composition I	3	Mathematics Elective	3
ENGL 102 English Composition II	3	PE/Wellness	1
COMM 101 Effective Speaking	3	RESP 100 Introduction to RC	2
BIOL 111 Introduction to Human Biology	3	FYS Course	1
CHEM 100 Fund of Chemistry *	3	* Math 051 or 055- prereq for CHEM 100	
Core A-Humanities/Arts elective	3	Total Credits for General Education	28
Core B-Social/Behavioral Science elective	3		
<b>Major</b>			
RESP 120 Cardiopulmonary A & P	4	RESP 200 Cardiopulmonary Diseases	3
RESP 130 Hospital Orientation	2	RESP 205 Clinical Practice II	2

RESP 140 Oxygen Administration	4	RESP 210 Critical Care	6
RESP 150 Pharmacology	3	RESP 230 Cardiopulmonary Lab Procedures	2
RESP 160 Patient Assessment	3	RESP 235 Clinical Practice III	2
RESP 170 Therapeutics	4	RESP 245 Clinical Practice IV	2
RESP 175 Clinical Practice I	2	RESP 270 Neonatal & Pediatric Respiratory Care	4
Total Credits for Major			43

**Courses required prior to clinical admission (Refer to Admission Criteria on the HACC website for a complete listing of requirements.)**

**BIOL 111**

**CHEM 100 (Math 051 or 055 is a prerequisite)**

**ENGL 101**

**RESP 100 (Must be taken within 24 months of clinical start.)**

**Program-specific course sequence** (taken upon acceptance into the clinical phase)

<u>Fall I</u>	<u>Spring I</u>	<u>Summer</u>	<u>Fall II</u>	<u>Spring II</u>	<u>Summer II</u>
BIOL 111	RESP 120	RESP 140	RESP 170	RESP 210	RESP 245
CHEM 100	RESP 130	RESP 150	RESP 205	RESP 235	RESP 270
RESP 100	RESP 160	RESP 175	RESP 230	HUM/ARTS Elec	
ENGL 101	RESP 200		ENGL 102	SOC/BEHA Elec	
FYS	COMM101		MATH Elec		
PE/Wellness					

**Note:** A grade of C or higher is required for ENGL 101; COMM/SPCH 101; BIOL 111, CHEM 100, and RESP courses. Graduation requirements include satisfactory performance on comprehensive written, laboratory, simulation and oral examinations administered within five weeks prior to graduation.

**The complete program is available only at the Harrisburg Campus. Prerequisites offered at all other campuses and on-line.**

## SURGICAL TECHNOLOGIST

Associate Degree - Harrisburg

**Description of Occupation** - Surgical technologists are allied health professionals who are an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings. The surgical technologist works under medical supervision to facilitate the safe and effective conduct of invasive surgical procedures. A surgical technologist possesses expertise in the theory and application of sterile and aseptic technique and combines the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures. Surgical technologists may be exposed to bloodborne pathogens and potentially hazardous materials.

The ability to perform under pressure in stressful and emergency situations is a quality essential to surgical technologists. A stable temperament, a strong sense of responsibility, considerable patience, and concern for order are required. Manual dexterity and physical stamina are vital. They must be oriented to detail, yet able to integrate a number of activities according to priority. They must be keenly sensitive to the needs of the patient as well as to the needs of other members of the surgical team.

Surgical technologists need manual dexterity to handle instruments quickly. They also must be conscientious, orderly, and emotionally stable to handle the demands of the operating room environment. Technologists must respond quickly and know procedures well to have instruments ready for surgeons without having to be told. They are expected to keep abreast of new developments in the field. Recommended high school courses include health, biology, chemistry, and mathematics.

**Program Admission Criteria** - *Selective program.* Admission to the college doesn't guarantee admission to the clinical component of the program. You will be admitted as a pre-surgical technology student and work with your advisor to apply to the clinical/core component of the program. Check the [Health Careers website](#) for complete program admission criteria.

**Length of Program and College Degree Conferred** - The surgical technology program is offered as a 61-credit program, with the awarding of an associate in applied science degree upon successful completion. Completion time can vary depending on a candidate's background and need for identified preparatory skills and coursework and the student's rate of study. The complete program is offered at the Harrisburg campus. All required prerequisite courses offered at other campuses and sites and/or online. Students are required to take the National Board of Surgical Technology and Surgical Assisting (NBSTSA) examination prior to graduation. Graduation is not dependent upon passing the NBSTSA exam. Certification provides evidence to employers, colleagues in the field and the general public that certified surgical technologists and first assistants meet national standards. Certification is often a condition of employment, a route to higher pay and a source of nationwide recognition. The program goal is to prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

**Places of Employment and Outlook** – Consistently on Top 25 Fastest-Growing and Top 25 Occupations with the Most Openings lists. Many surgical technologists are employed in hospital operating rooms, delivery rooms, ambulatory care areas, and central supply departments. Job opportunities will be best for technologists who are certified.

**Salary Range for Geographical Area** –\$42,562 median salary for surgical technologist in Harrisburg from www.salary.com Jan 2018

**Related Websites For Additional Information About The Career**

[www.ast.org/](http://www.ast.org/) [www.nbtsa.org](http://www.nbtsa.org)

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [stare@hacc.edu](mailto:stare@hacc.edu)  
 Program questions? Contact **Amy Kennedy** [alkenned@hacc.edu](mailto:alkenned@hacc.edu) 717-221-1321 or (800) 222-4222 ext 211321

**SURGICAL TECHNOLOGY, Associate in Applied Science Degree (#3646P) FALL 2018  
 PROGRAM REQUIREMENTS (TOTAL CREDITS = 61)**

General Education	Major	Other Required Courses
ENGL 101 English Comp I	3 SURG 101 Concepts in Surg Tech	3 BIOL 105 Medical Terminology
COMM 203 Interpersonal Communic	3 SURG 105 Pharmacology	1 BIOL 121 Anatomy and Physiology I
Humanities/Arts elective	3 SURG 110 Intro to Surgical Tech	5 BIOL 122 Anatomy and Phys II
PSYC 101 Gen Psych (Core B)	3 SURG 111 Surgical Procedures I	5 BIOL 221 Microbiology
First Year Seminar (FYS)	1 SURG 112 Surgical Procedures II	5 BIOL 230 Physiological Pathology
PE/Wellness	1 SURG 210 Surg Clinical Extern I	
	14 SURG 220 Surg Clinical Extern II	
	3 SURG 230 Surg Clinical Extern III	
	29	6/17

**Note:** A grade of C or higher is required for all BIOL and SURG courses, ENGL 101 and COMM 203.

**The hospital externship begins in the second clinical semester. There are three externship semesters in the clinical program.**

Fall Semester I	Spring Semester I	Summer I
BIOL 105	BIOL 122	SURG 105 (Classroom)
BIOL 121 (Core C)	BIOL 221	SURG 110 (Classroom)
ENGL 101	SURG 101 (Classroom)	
FYS Elective	Wellness	
PSYC 101 (Core B)		

Fall Semester II	Spring Semester II	Summer II
BIOL 230	Arts/Humanities Elective	SURG 230 (ClinicL)
COMM 203	SURG 112 (Classroom)	
SURG 111 (Classroom)	SURG 220 (Clinical)	
SURG 210 (Clinical)		

Complete program offered at Harrisburg campus. Prerequisites offered at all other campuses and on-line. Clinical externships can be completed in health care facilities throughout our service area, including Lancaster, York, Lebanon and Gettysburg.

**WELLNESS & HEALTH PROMOTION (WHP)**

Associate in Applied Science Degree - Gettysburg/Harrisburg/Lancaster/Lebanon/York/Virtual

**WHP courses are offered only online.**

The Wellness and Health Promotion Associate in Applied Science degree program prepares students for a rewarding career helping individuals, employers, communities, healthcare systems, and government agencies realize the power and potential of promoting healthy lifestyles, preventing disease, and supporting wellness for all individuals. This program allows students to select from two tracks: Workplace Wellness or Community Health. Students in both tracks gain a foundation of the various dimensions of wellness, health promotion, and health coaching. The curriculum provides students with the skills for promoting healthy choices, facilitating behavior change, assessing individuals, groups, and programs, and for designing and evaluating wellness-based programs. Students prepare for employment in the field by participating in a field and capstone experience, completing an electronic portfolio for professional use, and submitting a post-graduation plan.

The Workplace Wellness track prepares graduates to design and implement wellness programs for both employers and employees using effective communication and program marketing skills.

The Community Health option prepares graduates to be health advocates within health agencies and healthcare systems, as they connect individuals to available services and resources within their respective communities.

Program graduates are prepared for and are highly encouraged to complete the *Health Coach Certification* from the *American Council on Exercise (ACE)* or a similar professional certification. Although this is not specifically designed as a transfer program, opportunities do exist for students to apply for admission to certain on-campus or online Bachelor's Programs once they have completed this degree, or more, along with specific prerequisites.

The complete program is available through Virtual Learning.

The Wellness and Health Promotion Program prepares students to work in this emerging field within the healthcare system, non-profits organizations, corporations, and government agencies as: Health Educators or Advocates, Wellness or Health Coaches, Work-place Wellness Coordinators. Community Health Workers or Specialists, Behavior Modification Specialists, Community Engagement Specialists, Health Promotion Specialists or Coordinators, or Prevention Specialists

General questions? Please contact an [Admissions Counselor](#), by phone at 800-ABC-HACC, or by email at [start@hacc.edu](mailto:start@hacc.edu)  
 Program questions? Contact Sandra Kroft- [stkroft@hacc.edu](mailto:stkroft@hacc.edu) .

**WELLNESS AND HEALTH PROMOTION, Associate in Applied Science Degree - 3610**  
**PROGRAM REQUIREMENTS (TOTAL CREDITS = 60)**

<b>General Education</b>		<b>Major Requirements</b>		<b>Other Required Courses</b>	
ENGL 101 English Composition I	3	WHP 101 Intro to Wellness & Health Promotion	3	BIOL 111 Intro to Human Biol (or)	3
ENGL 102 English Comp II (or)	3	WHP 102 Approaches to Weight Management	3	BIOL 121 Anatomy & Physiology	(4)
ENGL 104 Technical Writing (or)	(3)	WHP 103 Approaches to Stress Management	3	MGMT 227 Project Management	3
ENGL 106 Business Writing	(3)	WHP 201 Health Behavior Change & Interventions	3	PSYC 209 Life Cycle Development	3
COMM 101 Effective Speaking (or)	3	WHP 202 Foundations of Health Coaching	3	**Program Specific Electives	3
COMM 203 Interpersonal Comm	(3)	WHP 205 Assessment, Programming & Evaluation	3	** Choose any three of GERT 100, 101, 102, or 103; or PSYC 229	3
Humanities & Arts Elective: Core A Elective	3	WHP 206 Wellness & Health Promotion Capstone	3		<u>12</u>
PSYC 101 General Psych (Core B)	3	*Workplace Wellness Track (or)	6		
MATH 202 Intro to Stats (Core C)	4	*Community Health Track	<u>(6)</u>		
Wellness	1		27		
First Year Seminar (FYS)	<u>1</u>				
	21				

\*Choose one of the following tracks:

**Workplace Wellness Track**

MKTG 201 Principles of Marketing	3
WHP 204 Concepts of Workplace Wellness	<u>3</u>
	6

**Community Health Track**

HUMS 108 Drugs & Alcohol: Use & Abuse	3
WHP 203 Concepts of Community Health	<u>3</u>
	6

Note: A grade of C or higher is required for all WHP courses, MATH 202 and BIOL 111 or 121.

## HACC's Massage Student Studio

The studio is located on the Harrisburg campus in the Hall Technology Building, Room 203.

\$35 for a one-hour student massage (\$30 with your HACC ID). No tipping is permitted. Call 717-221-1317 or click here - <https://booknow.appointment-plus.com/1n54g44m/> - to schedule an appointment.

Student massage appointments are 1-hour massage sessions, based on the students current skills. Please check with your doctor if you are not sure you are a candidate for massage therapy.

Payment must be paid by credit card.

Each student is required to complete a minimum of 50 supervised massages in the student studio, outside classroom hours. Each class begins studio at the end of Swedish massage and continues until the end of the program.

## HACC's Dental Healthcare Facility

Can't afford dental visits? Maybe we can help.

### ***What you will receive...***

A complete dental exam, a routine cleaning, and thorough home care instructions performed by our dental hygiene students. You will receive individualized treatment based on examination findings.\* If needed, x-rays, deep (periodontal) cleaning and sealants are also available.

### ***How much it will cost...***

We are now a registered Medical Assistance provider offering a *sliding fee scale* for qualified individuals, as well as *discounts for HACC students!*

### ***How can I find out more?***

Stop by Select Medical Health Pavilion Room 102, Harrisburg campus or call 717-780-2441

*\*because the student dental hygienists are still in the learning stage of providing preventive services, it may take multiple three-hour visits in our clinic to complete your treatment\**

