CARDIOVASCULAR INTERVENTIONAL TECHNOLOGY

Degrees Offered
Bachelor of Medical Imaging & Therapeutic Sciences
Post-Baccalaureate Professional Certificate in Cardiovascular Interventional Technology

Length of Program
Each semester consists of approximately 12-16 hours of course work and clinical rotations scheduled throughout the 9-month program, starting in August and ending in May the following year. Program education covers both vascular and cardiac interventional technology.

Description
Completion of an accredited Radiography program, ARRT certification in Radiography, and 27 specific college prerequisites (http://www.unmc.edu/alliedhealth/education/vit/admission) are required for admission into the CVIT Program, which is offered as a post-primary certification modality at UNMC.

Members of the CVIT faculty include radiologic technologists with CVIT certification, interventional radiologists, nurses, and program directors that teach courses relating to their expertise.

After completion of the program, graduates are awarded a Bachelor Degree in Medical Imaging & Therapeutic Sciences or Post-Baccalaureate Professional Certificate in Cardiovascular Interventional Technology.

Students are eligible to sit for the American Registry of Radiologic Technologists certification in Cardiac Interventional Radiography and/or Vascular Interventional Radiography if the post-primary certification eligibility requirements are met. Requirements can be found in the ARRT Certification Handbook on the ARRT web site (https://www.arrt.org).

Degree Requirements
Students must successfully complete each course within the CVIT curriculum in order to be considered for the Bachelor of Science degree in Medical Imaging & Therapeutic Sciences. A minimum total of 120 semester credit hours are required for the Bachelor of Science degree in Medical Imaging & Therapeutic Sciences. Students must transfer in a minimum of 27 semester credit hours of specific prerequisite coursework, and be awarded up to 60 semester credit hours for their radiography curriculum. Additionally, students will complete approximately 34 semester hours within the CVIT curriculum. Students must also successfully complete each course within the CVIT curriculum in order to be considered for the Post-Baccalaureate Professional Certificate in Cardiovascular Interventional Technology.

All required didactic and clinical courses must be completed with a minimum letter grade of C- or better in order to successfully complete the program. The 9-month program consists of online didactic coursework and clinical experiences. The 400 level courses are designated for students pursuing the Bachelor of Science degree while the 600 level courses are designed for students pursuing the Post-Baccalaureate Professional Certificate.

Certification
The American Registry of Radiologic Technologists (ARRT) is the credentialing organization that recognizes individuals qualified in the use of ionizing and non-ionizing radiation to promote high standards of patient care in diagnostic medical imaging, interventional procedures and therapeutic treatment. The ARRT tests and certifies technologists and administers continuing education and ethics requirements for their annual registration.

ARRT Post-Primary Certification - The ARRT provides certification in Cardiac Interventional and Vascular Interventional disciplines.

Upon completion of the CVIT program at UNMC, graduates are eligible to apply for the national examination(s) for certification offered by ARRT.

Licensure
Depending on the state in which you decide to practice, you may also be required to become licensed as a radiologic technologist. Each state has its own laws in regard to licensure. Individual states hold the authority to administer the license and grant individuals permission to practice radiologic technology within their state.

More information on licensure in Nebraska (http://dhhs.ne.gov/Pages/default.aspx)

About the Profession
If you were a Cardiovascular Interventional Technologist your job would be to perform invasive diagnostic or curative procedures such as angiograms and intravascular catheterizations.

Cardiovascular Interventional Technology (CVIT) is an integral and advancing component of diagnostic and therapeutic radiologic procedures. CVIT involves specialized radiographic techniques used in angiography, interventional procedures (i.e. angioplasty), and central venous access procedures.

The CVIT Technologist is a key member of the radiology team that performs vascular and interventional procedures. These procedures are unique in that they require the integration of technical, radiologic, and clinical skills.

Career Outlook
Cardiovascular interventional technologists use imaging technology to help physicians diagnose cardiac (heart) and peripheral vascular (blood vessel) ailments in patients. They also help physicians treat problems with cardiac and vascular systems, such as blood clots. As imaging technology evolves, medical facilities will use it to replace more invasive, costly procedures.

According to the U.S. Department of Labor, Bureau of Labor Statistics, employment is expected to grow by 24 percent from 2014 to 2024, much faster than average for all occupations. While salaries vary depending upon shift differential, on-call pay, and years of experience, the US
Department of Labor estimated the median salary in 2016 to be $64,280 per year.

**Admissions**

**Cardiovascular Interventional Technology**

**Admission Requirements**

1. Graduate from an accredited Radiography program. Students in their final months of study are eligible to apply.
3. Undergraduate cumulative GPA of at least 2.5 on a 4.0 scale.
4. Radiography program GPA of at least 3.0 on a 4.0 scale.
5. Complete a shadow experience with a CVIT Program Representative. (Email to schedule a shadow experience.)


Enrollment in each program is limited and competitive. The admissions committee of each program, composed of program faculty and administration, evaluates the qualifications of each applicant and makes the final selections for admission.

Admission to the CVIT Program requires the applicant to successfully complete the following prior to matriculation:

- Graduate from an accredited Radiography Program
- Registered and in good standing with the ARRT
- Completion of the following 27 semester hours of required prerequisite course work:
  - Language/Social Sciences (12 semester hours)
    - Coursework meeting this requirement may include but is not limited to composition, literature, communication, speech, foreign language, philosophy, sociology, psychology, art, history, religion.
  - Mathematics (3 semester hours)
    - Mathematics or statistics
  - Natural Sciences (12 semester hours)
    - Course work meeting this requirement may include but is not limited to biology, chemistry, physics, anatomy, physiology or earth science.

*Advanced Placement:
A maximum of 6 College Level Examination Program (CLEP) or Advanced Placement (AP) semester hours will be accepted for transfer. CLEP semester hours in math and science will not be accepted & no more than 3 CLEP or AP hours of English Composition will be accepted.

College prerequisites, course requirements, and program requirements are subject to change.

All required didactic and clinical courses must be completed with a minimum letter grade of C- or better to meet requirements for graduation from the program.

Get complete application details on How to Apply (https://www.unmc.edu/alliedhealth/education/vit/admission/apply.html).

**Curriculum**

**First Year**

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<td>MITS 473R or MITS 673R CVIT CLINICAL EDUCATION I or CVIT CLINICAL EDUCATION I</td>
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**Spring**

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Total Credit Hours: 34