

DEPARTMENT OF MEDICAL
IMAGING SERVICES



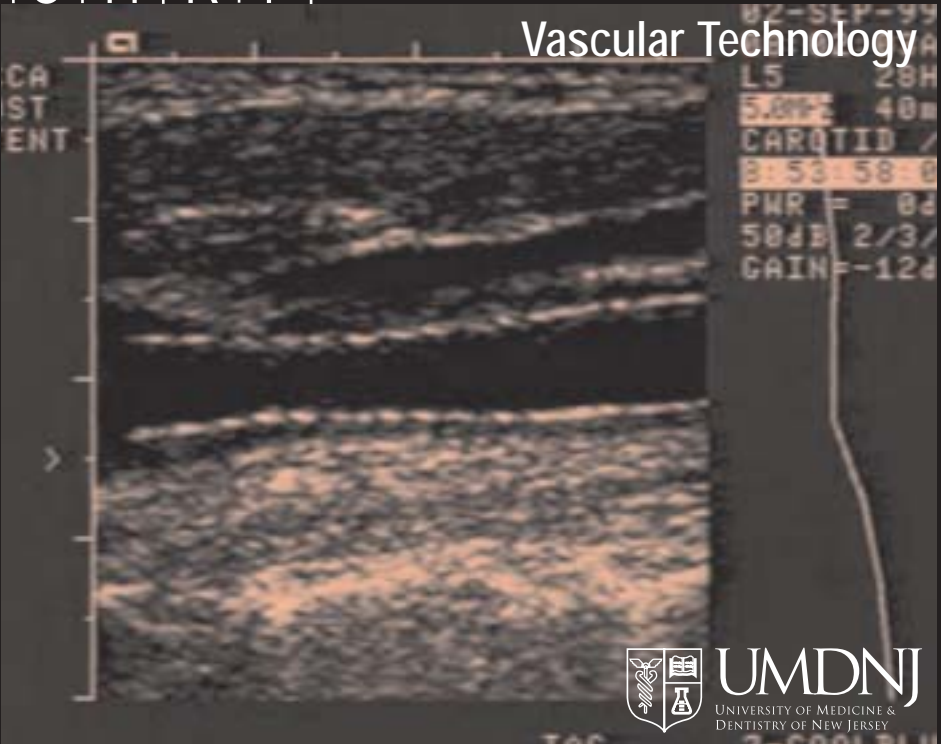
it's all
about

Choices...

| S | H | R | P |

School of Health Related Professions

Vascular Technology



A woman with dark hair pulled back, wearing a white lab coat, is looking down at a medical monitor. The monitor displays a grayscale image, likely a vascular scan. The background is a solid orange color. The text "Choices..." is overlaid on the right side of the image.

Choices...

Students who choose UMDNJ's School of Health Related Professions want a University that is exclusively dedicated to health care, with state-of-the-art equipment, rigorous coursework, and faculty who cares. All our resources go toward supporting a health care educational environment that attracts and nurtures the very best faculty and students.

Vascular Technology, also known as Vascular Ultrasound, is a growing field that needs the infusion of well-trained ultrasound specialists for the care of patients with vascular disease. It is the youngest of three ultrasound fields, which also include General Ultrasound and Echocardiography. Although all areas of testing utilize the same form of ultrasound technology, each application is highly specialized. Differences in testing techniques and the required knowledge-base have become so distinct, it is impossible for an expert in one field to perform well in another application without additional education.

The SHRP Program in Vascular Technology is a 15 month upper division, undergraduate program. Students may enter the program for a:

- 1) Bachelor of Science degree in Allied Health Technologies*
- 2) second Bachelor of Science degree or 3) 15-month certificate program. The program is based at the Newark campus of UMDNJ, School of Health Related Professions, under the medical direction of the New Jersey Medical School, Division of Vascular Surgery.*

Frequently Asked Questions

What is the University of Medicine and Dentistry of New Jersey (UMDNJ)?

UMDNJ is the state university of the health sciences. There are eight schools on five campuses across New Jersey. UMDNJ is the largest university of its kind in America and is a leader in health care research, education, and patient care.

What is SHRP?

SHRP stands for the School of Health Related Professions, one of eight schools at UMDNJ. Our specialization is two-fold: (1) Preparing students for entry-level health care careers. (2) Educating health professionals for career advancement.

What types of degrees and programs does SHRP offer?

SHRP has 34 programs at all academic levels. Many programs, including the Vascular Technology Program, are offered in conjunction with one or more of our 28 affiliate institutions.

What is an affiliate institution?

Affiliations are partnerships that SHRP has formed with other higher education institutions to provide you with the best education possible. SHRP provides all health-related courses, and the affiliate institutions provide the general education, basic sciences, and liberal arts education.

What affiliates are associated with the Vascular Technology Program to obtain a B.S. degree in Allied Health Technologies?

Georgian Court College, Fairleigh Dickinson University, Felician College, New Jersey City University, Ramapo College, and Rutgers University (Newark).

Can I apply for the bachelor degree option if I didn't go to an affiliate institution?

Yes, if you graduated from an accredited U.S. college or university with a Bachelor of Science degree, you may pursue a second Bachelor of Science degree.

Admission/Registration

How do I apply for admission?

Send your application to: School of Health Related Professions, Office of Enrollment Services, 65 Bergen Street, Room 101, Newark, NJ 07107-3001 (973) 972-5453.

What Degrees are offered through the Vascular Technology Program?

There are three options to enter the program. After completing three years at one of the six affiliate institutions, you can complete your Bachelor of Science Degree in Vascular Technology. You may also obtain a second Bachelor of Science degree if you graduated from an accredited U.S. college or university with a Bachelor of Science Degree. Lastly, you may apply for can apply to the certificate program if you completed two years of college level coursework which includes anatomy and physiology, algebra and medical terminology.

Will I be invited to an interview and a tour?

The Program Director or a faculty member will meet with you for an interview and to tour the facilities to better acquaint you with the program.

What is the application deadline?

The application and all supporting documents must be received by June 1 for the fall term. Please submit official transcripts from all institutions where you have earned credits.

What are the other requirements?

You are required to be computer literate upon enrollment in the program. You must also have remote (off-campus) access to Internet services, to include at least web browsing capability and e-mail. Transportation must also be available for clinical training at hospital affiliates. Foreign students must submit a TOEFL score with a minimum score of 550 (213 by computer), and official transcripts with acceptable translation.

What is the admission selection process?

Selection is a competitive process. Decisions are based on a composite of the applicant's overall academic ability, including aptitude and abilities in professional and science courses. The school does not discriminate against qualified individuals on the basis of race, creed, national origin or disability. The University recognizes the value of diversity and is

committed to providing appropriate support to its student body. The Disability Compliance Coordinator may be reached at 973-972-0044.

Where do I register?

Students register at SHRP.

Who will advise me during the program?

The SHRP Program Director will advise you upon acceptance to the Vascular Technology Program. Students in the B.S. Allied Health Technologies will obtain advisement at the affiliate institution.

Where do I take classes?

Courses are held at SHRP in the Newark and Scotch Plains campuses.

Is this program full-time or part-time?

The Vascular Technology Program is a full-time program that starts in the fall and continues through the fall of the following year.

How many clinical hours are required?

You will be required to complete 1200 clinical hours.



UMDNJ – SHRP

Vascular Technology Program

Course #	Course Title	Credits
Fall I Semester		
DXIT 4100	Advanced Patient Care for the Imaging Sciences	3
VSTC 4370	Introduction to Noninvasive Vascular Testing	2
VSTC 4300	Vascular Laboratory Practices	3
VSTC 4381	Introduction to Vascular Physics and Instrumentation	1
VSTC 4111	Vascular Anatomy, Physiology and Pathophysiology I	3
		12
Spring Semester		
DXMS 4111	Acoustic Physics I	2
VSTC 4212	Vascular Pathophysiology, Diagnostics, and Therapeutics	3
VSTC 4121	Noninvasive Diagnosis of Vascular Disease I	2
VSTC 4131	Clinical Correlation I	1
VSTC 4149	Clinical Practice I	4
		12
Summer Semester		
DXMS 4212	Acoustic Physics II	2
VSTC 4222	Non-invasive Diagnosis of Vascular Disease II	2
VSTC 4232	Clinical Correlation II	1
VSTC 4249	Clinical Practice II	3
		8
Fall Semester		
HSTC 4360	Introduction to Echocardiography	1
HSTC 4151	Abdominal Cross-sectional Ultrasound	2
VSTC 4382	Vascular Physics and Instrumentation	1
VSTC 4333	Clinical Applications in Vascular Technology	2
VSTC 4349	Clinical Practice III	6
		12
Total		44

Where do the clinical rotations take place?

There are 10 clinical sites located in Northern and Central New Jersey.

Can I take courses in Vascular Technology if I have not been accepted for admission?

You may take up to 12 credits at SHRP as a non-matriculated student. This does not guarantee admission into the program. To inquire about non-matriculated status, please call the Center for Advanced and Continuing Education (CACE) at 908-889-2560 or check the web site at <http://www.umdj.edu/ccweb/>.

The Field of Vascular Technology

Why is the field called vascular technology?

In addition to using ultrasound equipment, the vascular sonographer uses a variety of instrument modalities to non-invasively test the vascular patient.

How are the tests performed?

A vascular ultrasound examination is more than taking a series of ultrasound pictures and is very different from other diagnostic modalities. The ultrasound exam is a multi-step puzzle-solving process requiring probe manipulation to obtain a correct assessment. Each step needs to be interpreted to determine the next step. The examination is complete when the sonographer is able to combine all elements to form a coherent impression of the disease state. Therefore, the vascular sonographer is the one who must identify the presence or absence of disease.

How does the vascular sonographer interact with the physician? Physicians rely on the sonographer to perform the necessary tests and to help determine the patient's care. This makes the sonographer a valuable complement to the referring physicians and the close working relationship adds to the degree of job satisfaction.

Is this the right field for me?

You must enjoy working with patients, and be interested in using hand-eye coordination skills for problem solving challenges. You will be making decisions that have important consequences to the patient and communicating your findings with physicians. You will find this field exciting and challenging if you enjoy developing your analytical and technical skills to solve complex problems.



Career Opportunities

What career opportunities are available for vascular sonographers?

Technological advances are requiring vascular sonographers who are better educated and willing to accept greater responsibilities. Currently there is a shortage of skilled professionals, locally and nationally. Career opportunities for Vascular Sonographers are excellent because the high demand is not being met by the small number of graduates.

What can I expect to earn?

The Vascular Technology Program at UMDNJ-SHRP is one of 14 accredited programs in the United States, and based upon recent graduates, the yearly starting income has increased to over \$40,000 in area hospitals. As you may expect this is highly variable. Within the last three years there seems to have been an upward push in salaries because of the lack of trained sonographers. Private physician laboratories usually pay less. Large multi-laboratory companies and temp agencies pay more. Many laboratories also have on-call schedules which can boost salaries considerably. Part-time and per diem jobs are also available for those seeking flexibility.

Tuition/Financial Aid

Please visit the UMDNJ Financial Aid web site at www.umdnj.edu/faidweb/index.htm for details related to tuition.

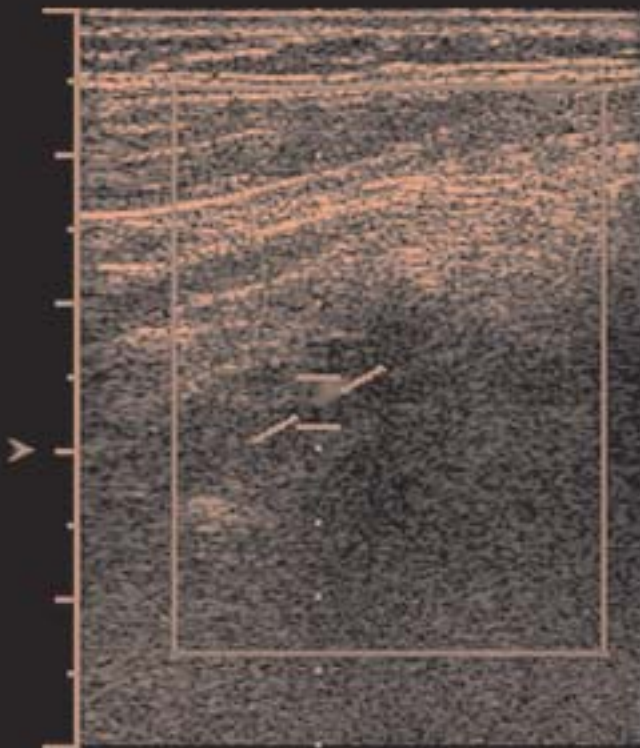
Accreditation

Is the program accredited?

This program is fully accredited by the Committee on Accreditation of Allied Health Programs (CAAHEP) through the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT).

To Learn More

To learn more about the Vascular Technology Program, contact the Director, Dr. Clifford T. Araki at 973-972-6422 or by e-mail at arakict@umdnj.edu. Please visit our web site at <http://shrp.umdnj.edu/vastcweb/homepage.html> to additional information.



Vascular Calc
Carotid Study
Left

- CCA
- ICA Prox
- ICA Mid
- ICA Dist
- ECA
- Vert
- Subclav

Store in progress
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