

Diagnostic Cardiovascular Sonography



HEALTH

Information Packet

Adult Echocardiography
Pediatric Echocardiography
Vascular Sonography



Your College  **Right Now**





DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY

A.A.S. DEGREE/CERTIFICATE

100%
Job Placement Rate

100%
Credential Success

ACC
ALVIN COMMUNITY COLLEGE

Improve Patient Care by Becoming a Sonographer at Alvin Community College

Sonography is the use of high-frequency sound waves, also known as ultrasound, to observe the internal world of the human body. Sonographers are on the front line of early detection and evaluation of cancer, women's health issues, heart defects, arterial blockages, and more.

ACC offers two DCVS concentrations: Adult Cardiac and Vascular. All require the use of ultrasound machines to produce images of patient's hearts, veins and/or arteries using high frequency sound waves.

Career Opportunities

Career opportunities remain strong nationally and within the region. The Bureau of Labor Statistics notes that the Houston Metro region employs over 1,700 sonographers with an annual wage mean of \$85,080. Starting salary for a new graduate is generally around \$55,000. Recruiters contact ACC regularly about qualified graduates to fill job openings.

An Adult Cardiac Sonographer is a specialized diagnostic medical sonographer who performs imaging on adult hearts or blood vessels surrounding the heart.

A Vascular Sonographer examines blood vessels using ultrasound.

If you are compassionate, flexible, detail-oriented, and like working in a fast-paced and caring environment, you might be a good fit as a Sonographer.

What Will I Study?

The DCVS program curriculum is composed of didactic instruction, hands-on laboratory practice, individual outside scanning practice, and supervised external clinical experience.

For More Information:

Website: www.alvincollege.edu/DCVS

Phone: 281.756.5625

Email: sonography@alvincollege.edu

Your College  **Right Now**

Revised 7/19

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY

Associate of Applied Science Degree – 62 credit hours

PROGRAM PREREQUISITES	CREDITS
P ⁺ BIOL 2401 - Anatomy & Physiology I	4
P ⁺ BIOL 2402 - Anatomy & Physiology II	4
P ⁺ MATH 1314 - College Algebra or	
P ⁺ MATH 1332 - Quantitative Reasoning	3
P ⁺ PHYS 1410 - Elementary Physics	4
FIRST YEAR - FIRST SEMESTER (Fall 16 Week)	
DMSO 1210 - Introduction to Sonography	2
DSAE 2303 - Cardiovascular Concepts	3
HPRS 1304 - Basic Health Profession Skills	3
*DSAE 1303 - Introduction to Echocardiography Techniques	3
CVTT 1161 - Clinical - Cardiovascular Technology	1
SECOND SEMESTER (Spring 16 Week)	
DMSO 1342 - Intermediate Ultrasound Physics	3
*DSAE 2304 - Echocardiography Evaluation of Pathology I	3
DSAE 1360 - Clinical - DMST Intro to Echo	3
**+ENGL 1301 - Composition I	3
THIRD SEMESTER (Summer 11 Week)	
*DSAE 2337 - Echocardiography Evaluation of Pathology II	3
DSAE 2461 - Clinical - DMST Echo II	4
**+Select from Social & Behavioral Sciences Core Curriculum	3
SECOND YEAR - FIRST SEMESTER (Fall 16 Week)	
*DSAE 2335 - Advanced Echocardiography	3
DSAE 2462 - Clinical - DMST Echo III	4
DSVT 1300 - Principles of Vascular Technology	3
**+Select from Language, Philosophy & Culture Core Curriculum or	
**+Select from Creative Arts Core Curriculum	3
DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY (A.A.S.) DEGREE	
	62

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY

Advanced Technical Certificate – 29 credit hours

FIRST SEMESTER (Fall 16 Week)	CREDITS
*DSAE 1303 - Introduction to Echocardiography Techniques	3
DSAE 2303 - Cardiovascular Concepts	3
SECOND SEMESTER (Spring 16 Week)	
*DSAE 2304 - Echocardiography Evaluation of Pathology I	3
DMSO 1342 - Intermediate Ultrasound Physics	3
DSAE 1360 - Clinical - DMST Intro to Echo	3
THIRD SEMESTER (Summer 11 Week)	
*DSAE 2337 - Echocardiography Evaluation of Pathology II	3
DSAE 2461 - Clinical - DMST Echo II	4
FOURTH SEMESTER (Fall 16 Week)	
*DSAE 2335 - Advanced Echocardiography	3
DSAE 2462 - Clinical - DMST Echo III	4
DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY (ADVANCED TECHNICAL CERTIFICATE)	
	29

- + Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.
- P Prerequisite courses must be completed or in progress by the application deadline.
- ** May be taken prior to acceptance.
- * Capstone Course

APPLICATION DEADLINE

The deadline to apply for the Diagnostic Cardiovascular Sonography program is May 15. The program begins Fall semester.

*PROGRAM COSTS

The Diagnostic Cardiovascular Sonography degree program costs approximately \$4,479 for in-district students and \$7,404 for out-of-district students. This includes tuition and fees for DCVS courses. Additional fees for textbooks, supplies, uniforms, testing, vaccinations, insurance, and graduation are approximately \$4,379.

**Alvin Community College may change tuition rates and other fees without notice or when directed by the Board of Regents.*

ACCREDITATION

Both the DCVS degree and certificate programs are accredited through the Joint Review Committee for Diagnostic Medical Sonography (JRC-DMS) which is under the umbrella of the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

CAAHEP - 25400 US Hwy 19 North, Ste 158, Clearwater, FL 33763 | Phone:727-210-2350 | Email: mail@caahep.org

Alvin Community College is an equal opportunity institution.

If you have a disability and need assistance or require special accommodations contact the Office of Disability Services at 281-756-3533 or ods@alvincollege.edu.

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY

Associate of Applied Science Degree – 65 credit hours

PROGRAM PREREQUISITES	CREDITS
P ⁺ BIOL 2401 - Anatomy & Physiology I	4
P ⁺ BIOL 2402 - Anatomy & Physiology II	4
P ⁺ MATH 1314 - College Algebra or	
P ⁺ MATH 1332 - Quantitative Reasoning	3
P ⁺ PHYS 1410 - Elementary Physics	4
FIRST YEAR - FIRST SEMESTER (Fall 16 Week)	
DMSO 1210 - Introduction to Sonography	2
DSAE 2303 - Cardiovascular Concepts	3
HPRS 1304 - Basic Health Profession Skills	3
*DSAE 1303 - Intro to Echo Techniques	3
CVTT 1161 - Clinical - Cardiovascular Technology	1
SECOND SEMESTER (Spring 16 Week)	
DMSO 1342 - Intermediate Ultrasound Physics	3
*DPSE 1300 - Intro to Pedi Echo Techniques	3
DSPE 1360 - Clinical - DMST Intro to Pedi Echo	3
**+ENGL 1301 - Composition I	3
THIRD SEMESTER (Summer 11 Week)	
*DSPE 2357 - Echo Eval of Congenital Heart Disease I	3
DSAE 2461 - Clinical - DMST Pedi Echo II	4
**+Select from Social & Behavioral Sciences Core Curriculum	3
SECOND YEAR - FIRST SEMESTER (Fall 16 Week)	
*DSPE 2349 - Echo Eval of Congenital Heart Disease II	3
*DSPE 2359 - Advanced Pedi Echo	3
DSPE 2462 - Clinical - DMST Pedi Echo III	4
**+Select from Language, Philosophy & Culture Core Curriculum or	
**+Select from Creative Arts Core Curriculum	3
DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY (A.A.S.) DEGREE	
	62

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY

Advanced Technical Certificate – 23 credit hours

FIRST SEMESTER (Spring 16 Week)	
*DSPE 1300 - Intro to Pedi Echo Techniques	3
DSPE 1360 - Clinical - DMST Intro to Pedi Echo	3
SECOND SEMESTER (Summer 11 Week)	
*DSPE 2357 - Echo Eval of Congenital Heart Disease I	3
DSAE 2461 - Clinical - DMST Echo II	4
THIRD SEMESTER (Fall 16 Week)	
*DSPE 2349 - Echo Eval of Congenital Heart Disease II	3
*DSPE 2359 - Advanced Pedi Echo	3
DSPE 2462 - Clinical - DMST Pediatric Echo III	4
DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY (ADVANCED TECHNICAL CERTIFICATE)	
	23

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

P Prerequisite courses must be completed or in progress by the application deadline.

** May be taken prior to acceptance.

* Capstone Course

APPLICATION DEADLINE

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DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY

Associate of Applied Science Degree – 65 credit hours

PROGRAM PREREQUISITES	CREDITS
^P +BIOL 2401 - Anatomy & Physiology I	4
^P +BIOL 2402 - Anatomy & Physiology II	4
^P +MATH 1314 - College Algebra or	
^P +MATH 1332 - Quantitative Reasoning	3
^P +PHYS 1410 - Elementary Physics	4
FIRST YEAR - FIRST SEMESTER (Fall 16 Week)	
DMSO 1210 - Introduction to Sonography	2
DSAE 2303 - Cardiovascular Concepts	3
HPRS 1304 - Basic Health Profession Skills	3
*DSVT 1300 - Principles of Vascular Technology	3
CVTT 1161 - Clinical - Cardiovascular Technology	1
SECOND SEMESTER (Spring 16 Week)	
DMSO 1342 - Intermediate Ultrasound Physics	3
*DSVT 2318 - Peripheral Vascular Evaluation	3
DSVT 1360 - Clinical - DMST Intro to Vascular	3
**+ENGL 1301 - Composition I	3
THIRD SEMESTER (Summer 11 Week)	
*DSVT 2330 - Cerebral Vascular Evaluation	3
DSVT 2461 - Clinical - DMST Vascular II	4
**+Select from Social & Behavioral Sciences Core Curriculum	3
SECOND SEMESTER - FIRST SEMESTER (Fall 16 Week)	
*DSVT 2335 - Advanced Vascular Technology	3
DSVT 2462 - Clinical - DMST Vascular III	4
DSAE 1303 - Intro to Echo Techniques	3
**+Select from Language, Philosophy & Culture Core Curriculum or	
**+Select from Creative Arts Core Curriculum	3

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY (A.A.S.) DEGREE

62

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY

Advanced Technical Certificate – 37 credit hours

FIRST SEMESTER (Fall 16 Week)	CREDITS
*DSVT 1300 - Principles of Vascular Technology	3
DSAE 2303 - Cardiovascular Concepts	3
SECOND SEMESTER (Spring 16 Week)	
DMSO 1342 - Intermediate Ultrasound Physics	3
*DSVT 2318 - Peripheral Vascular Evaluation	3
DSVT 1360 - Clinical - DMST Intro to Vascular I	3
THIRD SEMESTER (Summer 11 Week)	
*DSVT 2330 - Cerebral Vascular Evaluation	3
DSVT 2461 - Clinical - DMST Vascular II	4
FOURTH SEMESTER (Fall 16 Week)	
*DSVT 2335 - Advanced Vascular Technology	3
DSVT 2462 - Clinical - DMST Vascular III	4

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY (ADVANCED TECHNICAL CERTIFICATE)

29

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Diagnostic Cardiovascular Sonography

Associate of Applied Science Degree



Your College Right Now

Application Deadline: May 15

Program Start: Fall Semester

Start Here

If you are new to ACC, apply online at: www.goapplytexas.org and submit official transcripts to Admissions.

Admission Requirements

REQUIRED COURSES – Completion of the following courses with a minimum grade of 'C' no later than spring semester of the application year.

- ☐ BIOL 2401 – Anatomy & Physiology I
- ☐ BIOL 2402 – Anatomy & Physiology II
- ☐ MATH 1314 – College Algebra
- ☐ PHYS 1410 – Elementary Physics

Schedule Observations

Lab observations are required of each program(s) applicant is applying to.

- ☐ Call **281.756.5625** to schedule

Attend an Information Session

Applicants are required to attend an information session.

- ☐ Go to: www.alvincollege.edu/DCVS for dates and location

Complete Application

- ☐ Complete Online Application on the DCVS web page: www.alvincollege.edu/DCVS

Additional Requirements

Submit the following via email to sonography@alvincollege.edu

- ☐ Completed Hepatitis B Series
- ☐ Completed HESI A2 exam within the last 5 years
Required HESI A2 sections: Reading Comprehension, Grammar, Vocabulary & Knowledge, Anatomy & Physiology, Math
- ☐ Observation Form (copies available in lab)

What's Next?

Wait to be contacted by the department. Please be patient; it can take several weeks for admission applications to be processed.

Once Accepted:

A condition of admission is based on completion and/or submission of the following:

- ☐ Proof of personal health insurance
- ☐ Passing a drug screening
- ☐ Physical examination
- ☐ Immunization record showing:
Completion of Hepatitis B Immunization series (may take up to 6 months), MMR, Tdap, TB, Varicella, Influenza (please note: a titer may be required for some of these immunizations)
- ☐ Cleared criminal background
- ☐ Attend mandatory program orientation

For more information, contact: sonography@alvincollege.edu or 281.756.5625

Admission steps are subject to change at any time.

Please visit <http://www.alvincollege.edu/admissions/getting-started-first-time-students.html> for the most up-to-date information.

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