



# DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY ADULT ECHOCARDIOGRAPHY A.A.S. DEGREE/CERTIFICATE



**86%**  
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 three DCVS concentrations: Pediatric Cardiac, 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.

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](http://www.alvincollege.edu/DCVS)

**Phone:** 281.756.5625

**Email:** [sonography@alvincollege.edu](mailto:sonography@alvincollege.edu)

**Your College**  **Right Now**

## DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY

Associate of Applied Science Degree - 62 credit hours

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

## DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - ADULT ECHOCARDIOGRAPHY

Advanced Technical Certificate - 29 credit hours

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

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

## APPLICATION DEADLINE

The deadline to apply for the Diagnostic Cardiovascular Sonography program is February 15. The program begins each June during the first Summer 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.*