

Diagnostic Cardiovascular Sonography



HEALTH

Application

Adult Echocardiography
Pediatric Echocardiography
Vascular Sonography



ALVIN COMMUNITY COLLEGE

Your College  **Right Now**





DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY

ADULT ECHOCARDIOGRAPHY

A.A.S. DEGREE/CERTIFICATE



100%
Job Placement Rate

100%
Credential Success



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

Phone: 281.756.5625

Email: sonography@alvincollege.edu

Your College  **Right Now**

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+ PHYS 1410 - Elementary Physics	4
P+ MATH 1314 - College Algebra or	3
P+ MATH 1332 - Quantitative Reasoning	

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
*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 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.

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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+PHYS 1410 - Elementary Physics	4
P+MATH 1314 - College Algebra	3

FIRST YEAR - FIRST SEMESTER (Summer 11 Week)

DMSO 1210 - Introduction to Sonography	2
DSAE 2303 - Cardiovascular Concepts	3
DSPE 2255 - Neonatal/Pediatric Patient Care Skills	2
HPRS 1304 - Basic Health Profession Skills	3

SECOND SEMESTER (Fall 16 Week)

CVTT 1161 - Clinical - Cardiovascular Technology	1
DSAE 1303 - Intro to Echocardiography Techniques	3
DSAE 1340 - Diagnostic Electrocardiography	3
**+Select from Social & Behavioral Sciences Core Curriculum	3

THIRD SEMESTER (Spring 16 Week)

DMSO 1342 - Intermediate Ultrasound Physics	3
DSPE 1265 - Practicum - DMST Intro to Pedi Echo	2
DSPE 1300 - Intro to Pedi Echo Techniques	3

SECOND YEAR - FIRST SEMESTER (Summer 11 Week)

DSPE 2257 - Echo Eval of Congenital Heart Disease I	2
DSAE 2261 - Clinical - DMST Pediatric Echo I	2
**+Select from Language, Philosophy & Culture Core Curriculum or Select from Creative Arts Core Curriculum	3

SECOND SEMESTER (Fall 16 Week)

DSPE 2249 - Echo Eval of Congenital Heart Disease II	2
DSPE 2461 - Clinical - DMST Echo II	4

THIRD SEMESTER (Spring 16 Week)

DSPE 2259 - Advanced Pediatric Echocardiography	2
*DSPE 2462 - Clinical - DMST Pediatric Echo III	4

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY (A.A.S.) DEGREE

65

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - PEDIATRIC ECHOCARDIOGRAPHY

Advanced Technical Certificate – 23 credit hours

FIRST SEMESTER (Spring 16 Week)

DSPE 1265 - Practicum - DMST Intro to Pedi Echo	2
DSPE 1300 - Intro to Pedi Echo Techniques	3
DSPE 2255 - Neonatal/Pediatric Patient Care Skills	2

SECOND SEMESTER (Summer 11 Week)

DSPE 2257 - Echo Eval of Congenital Heart Disease I	2
DSAE 2261 - Clinical - DMST Pediatric Echo I	2

THIRD SEMESTER (Fall 16 Week)

DSPE 2249 - Echo Eval of Congenital Heart Disease II	2
DSPE 2461 - Clinical - DMST Echo II	4

FOURTH SEMESTER (Spring 16 Week)

DSPE 2259 - Advanced Pediatric Echocardiography	2
*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+ENGL 1301 - Composition I	
P+PHYS 1401 - College Physics I or	3
P+PHYS 1410 - Elementary Physics	
P+MATH 1314 - College Algebra	4

FIRST YEAR - FIRST SEMESTER (Summer 11 Week)

**DMSO 1210 - Introduction to Sonography	2
**DSAE 2303 - Cardiovascular Concepts	3
HPRS 1304 - Basic Health Profession Skills	3

SECOND SEMESTER (Fall 16 Week)

CVTT 1161 - Clinical - Cardiovascular Technology	1
DSAE 1340 - Diagnostic Electrocardiography	3
**+Select from Social & Behavioral Sciences Core Curriculum	3

THIRD SEMESTER (Spring 16 Week)

DMSO 1342 - Intermediate Ultrasound Physics	3
DSVT 1300 - Principles of Vascular Technology	3
DSVT 1360 - Clinical - DMST Introduction to Vascular	3

SECOND YEAR - FIRST SEMESTER (Summer 11 Week)

DSVT 2330 - Cerebral Vascular Evaluation of Pathology	3
DSVT 2361 - Clinical - DMST Vascular I	3
Select from Language, Philosophy & Culture Core Curriculum or Select from Creative Arts Core Curriculum	3

SECOND SEMESTER (Fall 16 Week)

DSVT 2318 - Peripheral Vascular Evaluation of Pathology	3
DSVT 2461 - Clinical - DMST Vascular II	4

THIRD SEMESTER (Spring 16 Week)

DSVT 2335 - Advanced Vascular Technology	3
*DSVT 2462 - Clinical - DMST Vascular III	4

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

65

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY

Advanced Technical Certificate – 37 credit hours

FIRST SEMESTER (Spring 16 Week)	CREDITS
DMSO 1210 - Introduction to Sonography	2
DMSO 1342 - Intermediate Ultrasound Physics	3
DSVT 1300 - Principles of Vascular Technology	3
DSVT 1360 - Clinical - DMST Introduction to Vascular	3

SECOND SEMESTER (Summer 11 Week)

**DSAE 2303 - Cardiovascular Concepts	3
DSVT 2330 - Cerebral Vascular Evaluation of Pathology	3
DSVT 2361 - Clinical - DMST Vascular I	3

THIRD SEMESTER (Fall 16 Week)

DSAE 1340 - Diagnostic Electrocardiography	3
DSVT 2318 - Peripheral Vascular Evaluation of Pathology	3
DSVT 2461 - Clinical - DMST Vascular II	4

FOURTH SEMESTER (Spring 16 Week)

DSVT 2335 - Advanced Vascular Technology	3
*DSVT 2462 - Clinical - DMST Vascular III	4

DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY - VASCULAR SONOGRAPHY (ADVANCED TECHNICAL CERTIFICATE)

37

- + 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

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INFORMATION **SESSIONS**

If you are interested in the Diagnostic Cardiovascular Sonography Program (DCVS), please go to www.alvincollege.edu/dcvs for dates and instructions on how to attend information sessions.

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.applytexas.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

All applicants are required to observe 2 hours of each area: Adult Echocardiography, Pediatric Echocardiography or Vascular Sonography.

- Call 281.756.5625 to schedule

Attend an Information Session

All applicants are required to attend an information session.

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

Submit Application

- Drop off your application in S108;
- email to sonography@alvincollege.edu;
- or mail to: **ACC, Attn: DCVS**
3110 Mustang Rd,
Alvin, TX 77511
- Application Packets: www.alvincollege.edu/DCVS

Include with Your Application

- Completed Hepatitis B Series with titer showing immunity
- Completed HESI A2 exam within the last 5 years
- Observation Form
- Personal Statements
- Reference Letters
- Current American Heart Association CPR (BLS) for Healthcare Providers

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 of 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, Meningitis (required for students under the age of 22), and 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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DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY PROGRAM
APPLICATION FOR ADMISSION

FOR OFFICE USE (DO NOT WRITE IN THIS SPACE)

App rec'd / / Information Session / / Hep B / /
HESI A2 Score Cumulative Reading Prerequisite Final Grades: MATH PHYS A&P I A&P II Observations: AE PE Vascular

Please check the degree option you are applying for: [] AAS Degree [] ATC

Please check the specialty you are interested or rank in order of preference 1-2-3:

[] Adult Echocardiography [] Pediatric Echocardiography [] Vascular Sonography

(Please print in ink or type)

Last Name ACC Student ID#

First Name Middle Name

Suffix (Jr., II, etc) Other last names you have had

Mailing Address Street, PO Box, rural route, etc City State Zip

Permanent Address (If different) Street, PO Box, rural route, etc City State Zip

Mobile phone # () - Work phone # () -

County of residence E-mail

Emergency Notification (spouse, parent, guardian, etc):

Address Street City State Zip Telephone # () -

Citizenship: [] U.S. Citizen [] Permanent Resident Alien [] International Student

PERMANENT RESIDENT ALIEN INFORMATION

Country of Citizenship Resident Card Number

COLLEGES / UNIVERSITIES Are you currently enrolled in a college or university? [] YES [] NO

If yes, name of institution & city/state:

List courses currently enrolled in:

COLLEGES / UNIVERSITIES ATTENDED (Vocational, 2-year and/or 4-year)

School name/city/state Major & Degree earned Dates attended

CREDENTIALS / LICENSES

Type Institution name City State Dates attended

HEALTHCARE EXPERIENCE

Years of Experience Area of Allied Health

I certify that information given on this application is correct and complete. I understand that misrepresentation or omission of information will make me ineligible for admission to or continuation in, the Alvin Community College Diagnostic Cardiovascular Sonography Program.

Legal signature of applicant

Date



**DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY
PROFESSIONAL OBSERVATION FORM**

Student Name: _____

Date: _____

Please use this form to schedule and document your professional observation. Completion of all 6 hours of observation is **required** for admittance to the DCVS Program (two hours per specialty). Please be courteous and professional while in the class and lab. Dress professionally. **Return this form with your completed application.**

Call 281-756-5625 to Schedule Observation Hours
(Schedule well in advance, spots fill up quickly and are limited)

Scheduled Dates (write dates and times you are scheduled to observe)

Adult Echocardiogram	Date: _____	Time: _____	Room: S107
Pediatric Echocardiogram	Date: _____	Time: _____	Room: S107
Vascular Sonography	Date: _____	Time: _____	Room: S141

Verification of Visit:	Date(s)	Times	Hours	Instructor Initials
Adult Echo Lecture/Lab				
Pedi Echo Lecture/Lab				
Vascular Lecture/Lab				

Echo Faculty Signature: _____ **Date:** _____

Comments regarding student's attendance: _____

Pedi Echo Faculty Signature: _____ **Date:** _____

Comments regarding student's attendance: _____

Vascular Faculty Signature: _____ **Date:** _____

Comments regarding student's attendance: _____

***Out of State Applicants: contact DCVS Department at 281-756-5625 or sonography@alvincollege.edu for individual arrangements.**

Please sign HIPAA agreement *on back* and return this form with the application to the DCVS Program at Alvin Community College.



DIAGNOSTIC CARDIOVASCULAR SONOGRAPHY PROGRAM

Letter of Recommendation

I. To the applicant:

This form is to be given to a person who is familiar with your academic, professional, or personal qualifications. (i.e. Employer, supervisor, counselor, instructor, **professional, not personal**)

Applicant _____
(Last Name) (First Name) (Middle Name)

Address _____

Under the Buckley Amendment, students at Alvin Community College are permitted to see their academic records under certain conditions. I hereby **waive** **or retain** (check one) the rights thus granted me to see this letter of recommendation should I become a student at Alvin Community College – Diagnostic Cardiovascular Sonography Program.

Signature of Applicant Date

To _____
(Applicant to fill in name of person providing reference)

**PLEASE USE THIS FORM ONLY FOR YOUR RECOMMENDATION
MAIL TO ADDRESS AT BOTTOM, OR
RETURN WITH APPLICANT IN SEALED ENVELOPE**

II. The above named person is applying for admission to the Diagnostic Cardiovascular Sonography Program, Alvin Community College, and has given your name as a reference. Would you please comment on the applicant’s major strengths and weaknesses with regard to a career in health care? Please supply any additional information, which might help us in considering the applicant and return this recommendation form to the address listed at the bottom of this form.

Acquaintance with Applicant:

1. How long and in what capacity have you known this applicant? _____

COMMENTS: (Use an extra sheet of paper if needed). Please add any descriptive comments that will aid in providing a complete picture of the applicant's abilities and potential as a trainee and health care professional.

III. Professional Appraisal: (Please check the category which best indicates your evaluation of the applicant in terms of the listed characteristics.)

Characteristics	Superior	Above Average	Average	Poor	N/A	Comments
A. Academic Potential						
B. Leadership						
C. Professional Competence *						
D. Sense of Responsibility						
E. Ability to Work with People						
F. Rapport with Patients *						
G. Ability to Adapt to New Situations						
H. Ability to Work Independently						
I. Reliability						
J. Oral Communication						
K. Written Communication						
L. Ability to Analyze Problems and Solve them Effectively						

* This category should be completed only by those who have had an opportunity to observe the applicant in a health setting.

IV. Recommendation for Acceptance:

- Strongly recommend Recommend with reservations as noted in the comment section
 Recommend Do not recommend

Please type or print

Your Name: _____ Title: _____
 Organization: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone Number: _____ Date: _____
 Signature: _____

Please note: It is not possible to thank each individual personally for completing a recommendation form. We want you to know, however, that we are aware of the time required and both we and the applicant are most appreciative of your response. Please return this signed form to the applicant in a sealed envelope or to the following address:

PLEASE RETURN THIS FORM TO:
Alvin Community College – DCVS Program
3110 Mustang Road
Alvin, TX 77511
or email to sonography@alvincollege.edu