Echocardiography is an imaging technique that uses high-frequency sound waves, also known as ultrasound, to examine the heart. It is a safe, non-invasive procedure used to diagnose cardiovascular disease. Echocardiography allows doctors to visualize the anatomy, structure, and function of the heart and provides the doctor with information about the size and shape of the heart and also how well the heart’s chambers and valves are working. It can quickly diagnose the presence and severity of heart valve problems, as well as determine abnormal flow within the heart.

ACC offers a two year A.A.S. Degree program which prepares individuals for a health career in Adult Echocardiography.

The Advanced Technical Certificate program is a condensed version of the A.A.S. option available to students that already have a degree in an allied healthcare related field.

Because ACC’s DCVS programs are CAAHEP accredited, students are able to take their national registry exam offered by the American Registry of Diagnostic Medical Sonographers (ARDMS) or Cardiovascular Credentialing International (CCI) prior to graduation. Our graduates will enter the workforce with their credential, which will make them more marketable and eligible for higher starting wages.

Adult Echocardiography is 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), 1361 Park St., Clearwater, FL 33756, Tel: 727.210.2350.

Career Opportunities

Sonographers typically work in hospitals, but they may also work in physician offices, diagnostic centers, ultrasound equipment vendors as sales or application specialists, mobile services, and contract agencies. Career opportunities are available in the Houston area and nationally. Recruiters contact ACC regularly about qualified students to fill job openings. Starting salary for a new graduate is generally around $45,000, but increases to $60,000 - $80,000 with registry credential.

Options

**Associate of Applied Science Degree**
DCVS – Adult Echocardiography .................65 credit hours

**Advanced Technical Certificate**
DCVS – Adult Echocardiography ...............37 credit hours

Program Information

**AAS Application Deadline:** February 15

**ATC Application Deadline:** October 15

Admission Requirements are available in the ACC Catalog or online at www.alvincollege.edu/dcsv.

Call 281.756.5625 to obtain a current application packet.

Approximate cost for the AAS Degree is $8,500* and the ATC is $6,000*. This amount is based on a preset curriculum sequence and in-district tuition. It includes tuition, fees, books, scrubs, supplies, seminars, parking at clinical sites and malpractice insurance.

*Tuition and fees are subject to change without notice.

For more information call 281-756-5650 or email Sonography@alvincollege.edu.

Alvin Community College is an equal opportunity institution and does not discriminate against anyone on the basis of race, religion, color, sex, pregnancy, gender equity, sexual orientation, parental status, national origin, age, disability, family medical history or genetic information, political affiliation, military service or veterans status.

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 - Adult Echocardiography

### Associate of Applied Science Degree

**Program Pre-requisites** *(Must be completed or in progress by application deadline - February 15th)*

<table>
<thead>
<tr>
<th>Course Title</th>
<th>credits</th>
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<tbody>
<tr>
<td>BIOL 2401 - Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2402 - Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 - Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1401 - General Physics or CTEC 1401 - Applied Petrochemical Technology</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics - Select one MATH 1314, 1324, 1325, 1332, 1342, 1350, 2412, 2413, 2414</td>
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### Course Title

- **Creative Arts** - Select one ARTS 1301, 1303, 1304, COMM 2366, DRAM 1310, 2362, 2366 MUSI 1306, 1308, 1309, 1310
- **Language, Philosophy & Culture** - Select one CHIN 2311, 2312, FREN 2311, 2312 GERM 2311, 2312, SPAN 2311, 2312, 2313, 2315, COMM 1307 ENGL 2322, 2323, 2327, 2326, 2332, 2333 HUMA 1301, 1302, PHIL 1301, 1304, 2306

- **Social and Behavioral Sciences** - Select one ECON 2301, 2302, GEOG 1301, 1303, PSYC 2301, SOCI 1301
- **DMSO 1210 - Introduction to Sonography** 2
- **DSAE 2303 - Cardiovascular Concepts** 3
- **HPRS 1304 - Basic Health Profession Skills** 3
- **DSAE 1340 - Diagnostic Electrocardiography** 3
- **CVTT 1161 - Clinical - Cardiovascular Technology** 1
- **DSAE 1303 - Introduction to Echocardiography Techniques** 3
- **DSAE 1342 - Intermediate Ultrasound Physics** 3
- **DSAE 1360 - Clinical - DMST, Intro Echocardiography** 3
- **DSAE 2304 - Echocardiography Evaluation of Pathology I** 3
- **DSAE 2361 - Clinical - DMST, Echocardiography I** 3
- **DSAE 1340 - Diagnostic Electrocardiography** 3
- **DSAE 2337 - Echocardiography Evaluation of Pathology II** 3
- **DSAE 2461 - Clinical - DMST Echocardiography II** 4
- **DSAE 2335 - Advanced Echocardiography** 3
- **DSAE 2462 - Clinical - DMST Echocardiography III** 4

### Diagnostic Cardiovascular Sonography - Adult Echocardiography (A.A.S.) Degree – credit hours

65

*These courses may be taken prior to acceptance.

Su Course taken in the Summer.

Fa Course taken in the Fall.

Sp Course taken in the Spring.

### Advanced Technical Certificate

**Program Pre-requisites:** Associate Degree or higher in an Allied Health field from an Accredited Institution and a professional credential. Prior education must have included: Math (Core Curriculum), Physics, English, and Anatomy & Physiology *(Must be completed or in progress by application deadline - October 15th)*

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<td><em>Su</em>DSAE 2303 - Cardiovascular Concepts</td>
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**Diagnostic Cardiovascular Sonography - Adult Echocardiography Advanced Technical Certificate – credit hours**

37