

HEALTH SCIENCES

GUIDED PATHWAY: CARDIAC SONOGRAPHY – ADULT CARDIAC SONOGRAPHY ADVANCED TECHNICAL CERTIFICATE

For more information, visit www.dcccd.edu/CardiacSono and your academic advisor at El Centro College.

This is an example course sequence for students interested in pursuing an Advanced Technical Certificate in Adult Cardiac Sonography. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Advanced Technical Certificate in Adult Cardiac Sonography ⁱⁱ. For official certificate requirements, [click here](#).

The Adult Cardiac Sonography Advanced Technical Certificate is for a student having earned at least a previous Associate Degree in a designated allied health field or a B.S. degree with a major in a science discipline with substantial patient care experience. Potential students will be considered on an individual basis to determine if they have an adequate background in anatomy and physiology, college algebra, pathophysiology, pharmacology and physics. A background in basic ECG is also required. Upon completion, a certificate will be awarded.

The Adult Cardiac Sonography program has a [competitive admissions process](#). The Adult Cardiac Sonographer performs cardiovascular examinations to produce a picture of a heart and great vessels using high-frequency sound waves. These examinations are used to diagnose congenital heart disease, valvular disease, pericardial disease, cardiomyopathy, and other cardiovascular disorders. Types of examinations include 2D and 3D Echo, M-mode and color flow Doppler, as well as Transesophageal and Stress Studies. The Adult Cardiac Sonographer may work in hospitals, clinics and physicians' offices. Courses that complete the Certificate (ATC) are noted below.



ONLY Offered at ECC

PROGRAM SPECIFIC REQUIREMENTS ⁱⁱⁱ

Completion of the following:

- Current credential in a healthcare profession

Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS ^{iv}

Prerequisite Semesters 1 and 2 can be modified for part-time enrollment.
Once you are admitted to the program, you must enroll as outlined in Program Semesters 1-3.

ATC	PREQUISITE SEMESTER 1 (SPRING)	ACTION ITEMS
◆	DSAE 2303 – Cardiovascular Concepts	
TOTAL SEMESTER CREDIT HOURS: 3		
ATC	PROGRAM SEMESTER 1 (SUMMER)	ACTION ITEMS
◆	DMSO 2343 – Advanced Ultrasound Physics	<input type="checkbox"/> Meet with the clinical coordinator regarding placement for the Clinical course.
◆	DSAE 1270 – Introduction to Echocardiographic Evaluation	
◆	DSAE 1203 – Introduction to Echocardiography Techniques	
◆	DSAE 1164 – Practicum (or Field Experience)-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	
TOTAL SEMESTER CREDIT HOURS: 8		
ATC	PROGRAM SEMESTER 2 (FALL)	ACTION ITEMS
◆	DSAE 2404 – Echocardiographic Evaluation of Pathology I	<input type="checkbox"/> Meet with the clinical coordinator regarding placement for the Clinical course.
◆	DSAE 2660 – Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	
◆	DSAE 2335 – Advanced Echocardiograph	
TOTAL SEMESTER CREDIT HOURS: 13		
ATC	PROGRAM SEMESTER 3 (SPRING)	ACTION ITEMS
◆	DSAE 2437 – Echocardiographic Evaluation of Pathology II	<input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search, if needed. <input type="checkbox"/> Apply for Graduation ○ Meet with your advisor to apply for the Adult Cardiac Sonography Advanced Technical Certificate Completion. <input type="checkbox"/> Join the Alumni Network!
◆	DSAE 2661 – Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	
◆	DSAE 2355 – Echocardiography Professionalism and Registry Review	
TOTAL SEMESTER CREDIT HOURS: 13		
CERTIFICATE MINIMUM: 37 SEMESTER CREDIT HOURS PATHWAY TOTAL: 37 SEMESTER CREDIT HOURS		

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.

ⁱⁱ Students must earn at least 25% of the credit hours required for graduation through instruction by the DCCCD college awarding the certificate.

ⁱⁱⁱ To apply to the Adult Cardiac Sonography Advanced Technical Certificate, an applicant must meet the conditions of Application Eligibility. Detailed information is in the [application packet](#).

^{iv} This is not an official degree plan. For official certificate requirements, [click here](#).