

HEALTH SCIENCES

**GUIDED PATHWAY: CARDIAC SONOGRAPHY – ADULT CARDIAC SONOGRAPHY**

For more information, visit [www.dcccd.edu/CardiacSono](http://www.dcccd.edu/CardiacSono) and your academic advisor at El Centro College.

This is an example course sequence for students interested in pursuing Adult Cardiac Sonography. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (AAS) degree in Cardiac Sonography – Adult Cardiac Sonography<sup>ii</sup>. For official degree requirements, [click here](#).

The Adult Cardiac Sonography program is a two-year AAS degree program with 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. Gainful employment information for this degree can be found at [www.dcccd.edu/gainfulemp](http://www.dcccd.edu/gainfulemp). Courses that complete the Degree (D) are noted below.

Visit [www.ntxccc.org/pathways](http://www.ntxccc.org/pathways) to view guided pathways created for students who complete an AAS degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your college to choose courses that will help you to transfer to a specific university.



COLLEGE READINESS REQUIREMENTS (only for the AAS)			PROGRAM SPECIFIC REQUIREMENTS <sup>iii</sup>
<i>Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:</i>			<b>Completion of one of the following:</b> 1 <input type="checkbox"/> Completion of six Health Professions Readiness courses that satisfy the Health Professions Readiness I & II Skills Achievement Awards. 2 <input type="checkbox"/> Two years' employment as a healthcare worker within a medical related laboratory <b>AND</b> Direct patient care experience within the last 5 years 3 <input type="checkbox"/> Current credential in a healthcare profession (e.g., RN, Medical Assisting, Radiography, Paramedic, LVN, etc.)
READING & WRITING PLACEMENT	MATH PLACEMENT	ENGLISH LANGUAGE PROFICIENCY	
TSI READING MET: <u>  </u> YES <u>  </u> NO TSI WRITING MET: <u>  </u> YES <u>  </u> NO IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED	TSI MATH MET: <u>  </u> YES <u>  </u> NO	ENGLISH PROFICIENCY: <u>  </u> YES <u>  </u> NO	
<input type="checkbox"/> DREA/DWRI/DIRW (Circle One) _____	<input type="checkbox"/> DMAT _____	<input type="checkbox"/> ESOL _____	
<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____	
<i>Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.</i>			

**SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS<sup>iv</sup>**

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.

D	PREREQUISITE SEMESTER 1	ACTION ITEMS
♦	ENGL 1301 – Composition I (core course)	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester.
♦	MATH 1314 – College Algebra (core course)	
♦	BIOL 2401 – Anatomy and Physiology I <sup>v</sup> (core course)	
♦	HUMA 1315 – Fine Arts Appreciation <sup>vi</sup> (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 13</b>		
D	PREREQUISITE SEMESTER 2	ACTION ITEMS
♦	BIOL 2402 – Anatomy and Physiology II (core course)	<input type="checkbox"/> Meet with your advisor to request an official program of study audit, confirm or update your academic/career path and program of study. <input type="checkbox"/> Meet with the clinical coordinator regarding placement for the Practicum course.
♦	PSYC 2301 – General Psychology (core course)	
♦	SPCH 1311 – Introduction to Speech Communication <b>OR</b>	
♦	SPCH 1315 – Public Speaking <b>OR</b> (all core courses)	
♦	SPCH 1321 – Business and Professional Communication	
♦	DSAE 2303 – Cardiovascular Concepts	
<b>TOTAL SEMESTER CREDIT HOURS: 13</b>		
D	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	
<b>TOTAL SEMESTER CREDIT HOURS: 8</b>		
D	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. <input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search, if needed.
♦	DSAE 2660 – Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	
♦	DSAE 2335 – Advanced Echocardiograph	
<b>TOTAL SEMESTER CREDIT HOURS: 13</b>		
D	PROGRAM SEMESTER 3 (SPRING)	ACTION ITEMS
♦	DSAE 2437 – Echocardiographic Evaluation of Pathology II	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. <input type="checkbox"/> Meet with the Health Occupations Admissions Office to apply for the Adult Cardiac Sonography AAS. <input type="checkbox"/> Sign up for commencement. <input type="checkbox"/> Join the <a href="#">Alumni Network!</a>
♦	DSAE 2661 – Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	
♦	DSAE 2355 – Echocardiography Professionalism and Registry Review	
<b>TOTAL SEMESTER CREDIT HOURS: 13</b>		
<b>AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS   PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS</b>		

A minimum grade requirement of "C" or better is required in all courses.

<sup>i</sup> 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.

<sup>ii</sup> Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by the DCCCD college awarding the degree.

<sup>iii</sup> To apply to the Adult Cardiac Sonography program, an applicant must meet the conditions of Application Eligibility. Detailed information is in the [application packet](#).

<sup>iv</sup> This is not an official degree plan. For official degree requirements, [click here](#).

<sup>v</sup> To register for BIOL 2401 you must complete the prerequisite: A grade of "C" or better in BIOL 1406.

<sup>vi</sup> There are several options to fulfill this requirement. See the Health Occupations Admissions Office for a specific list.