

ADULT CARDIAC SONOGRAPHY, ADVANCED TECHNICAL CERTIFICATE

Program closed, not accepting new students

Program Code: ACTC

Meta-Major: HSCI

Location(s): Melbourne

Delivery Method(s): On-Campus

Previous Degree Required: AS/AAS

Eligible for Financial Aid: Yes

Additional Limited Access Application Process Required: Yes

Program Testing Requirements:

Classification of Instructional Programs (CIP) Code: 51.0901

Florida Department of Education CIP Code: 0351090166

The Adult Cardiac Sonography program allows registered Sonography professionals to expand their skills and leads to an Advanced Technical Certificate from Eastern Florida State College. As the adult population ages, the need for doctors to diagnose and treat heart-related issues is increasing, leading to a rising demand for cardiac sonographers.

Classroom and hands-on clinical experience are both key parts of the program, with local hospitals, diagnostic centers and clinics serving as clinical education settings for the certificate. Job opportunities include working in hospitals, emergency clinics, medical clinics and physician's offices.

Adult Cardiac Sonography is a limited access program with a [specialized application process](#). The program includes courses during two terms each year held on the Melbourne Campus and local clinical settings. To be awarded an ATC, students must have an AS or AAS. The ATC in Adult Cardiac Sonography requires an AS in Sonography from a regionally accredited institution. Coursework from the ATC may be used as part of BAS-Applied Health Science: Medical Imaging Sciences - [Adult Cardiac Sonography Specialization](#).

The completion of an AS or AAS degree is required for this program.

Diagnostic cardiac sonographers (also known as an echocardiography technologists) use non-invasive ultrasound machines, laptops and transducers to create images of the inside of patients' hearts, which physicians use to make a medical diagnosis – often without expensive, invasive methods. Cardiac sonographers also maintain the specialized cardiac imaging equipment. [Visit the program page for more details and how to apply.](#)

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Certificate Requirements

Code	Title	Credit Hours
Major Courses		
SON 3402	Introduction to Electrocardiography	3
SON 4404	Adult Cardiac Sonography I	3
SON 4405	Adult Cardiac Sonography 2	3
SON 4945	Adult Cardiac Practicum 1	4
SON 4946	Adult Cardiac Practicum 2	4
Total Credit Hours		17

The Cardiac Sonography Advanced Technical Certificate program is a two-term cohort-style course sequence split into fall and spring terms. The program totals 17 credit hours, 720 clinical/practicum hours and 144 skills laboratory/classroom hours.

Course	Title	Credit Hours
Term 1		
SON 3402	Introduction to Electrocardiography ¹	3
SON 4404	Adult Cardiac Sonography I ¹	3
SON 4945	Adult Cardiac Practicum 1 ²	4
Credit Hours		10
Term 2		
SON 4405	Adult Cardiac Sonography 2 ¹	3
SON 4946	Adult Cardiac Practicum 2 ²	4
Credit Hours		7
Total Credit Hours		17

1.

Classroom/lab assignments: 48 hours

2.

360 combination clinical/lab hours + objectives

Learning Outcomes: Adult Cardiac Sonography, ATC

These outcomes apply to the Advanced Technical Certificate and if the certificate's courses are taken as part of the Applied Health Science Bachelor of Applied Science - Medical Imaging Specialization.

1. Demonstrate professional behavior while in an adult cardiac clinical setting.
 - *Core Ability Supported: Work Cooperatively*
2. Differentiate between normal and abnormal Electrocardiography.
 - *Core Ability Supported: Think Critically and Solve Problems*
3. Identify abnormal and normal conditions for the adult cardiac cycle.
 - *Core Ability Supported: Think critically and Solve Problems*