

HEALTH SCIENCES

**GUIDED PATHWAY: INVASIVE CARDIOVASCULAR TECHNOLOGY
ADVANCED TECHNICAL CERTIFICATE**

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

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

The Invasive Cardiovascular Technology Advanced Technical Certificate is for a student having at least a previous Associate Degree in a designated allied health field or associate degree nursing, or a B.S. degree with a major in a science discipline. Potential students will be considered on an individual basis to determine if they have an adequate background in anatomy, physiology, and math. A background in basic ECGs and pharmacology is also required, which may be verified by either college-level coursework or job skills tested by examination.

The Invasive Cardiovascular Technology has a [competitive admissions process](#). The intensive didactic and clinical training program includes study of the theory of techniques used in diagnosis, treatment, and follow-up of cardiovascular disease in humans. The program prepares the graduate for employment in the medical specialty of an invasive cardiovascular technologist. Invasive Cardiovascular Technologists work in cardiac catheterization laboratories. They assist the cardiologist in performing intracardiac pressure and electrical measurements, oximetry determination, angiocardiography, and measurement/calculation of cardiac function indices. The Invasive Cardiovascular Technologist assists in all phases of cardiac catheterization procedures, including catheter insertion, operation of the electronic instruments, and calculation of the cardiac data used by the physician in confirming diagnosis and designing treatment for the cardiac patient, as well as care of the patient during procedures. Courses that complete the Certificate (ATC) are noted below.



ONLY Offered at ECC

PROGRAM SPECIFIC REQUIREMENTSⁱⁱⁱ

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}

ATC	PROGRAM SEMESTER 1 (SUMMER)	ACTION ITEMS
◆	CVTT 1313 – Catheterization Lab Fundamentals I	<input type="checkbox"/> Meet with the clinical coordinator regarding placement for the Clinical course.
◆	CVTT 1304 – Cardiovascular Anatomy and Physiology	
◆	CVTT 1360 – Clinical-Cardiovascular Technology/Technologist	

TOTAL SEMESTER CREDIT HOURS: 9

ATC	PROGRAM SEMESTER 2 (FALL)	ACTION ITEMS
◆	CVTT 1340 – Cardiovascular Pathophysiology	<input type="checkbox"/> Meet with your advisor to request an official program of study audit, confirm or update your academic and career path and program of study. <input type="checkbox"/> Meet with the clinical coordinator regarding placement for the Clinical course.
◆	CVTT 1110 – Cardiac Catheterization I	
◆	CVTT 1350 – Cardiac Catheterization II	
◆	CVTT 1153 – Catheterization Lab Fundamentals II	
◆	CVTT 2560 – Clinical-Cardiovascular Technology/Technologist	

TOTAL SEMESTER CREDIT HOURS: 13

ATC	PROGRAM SEMESTER 3 (SPRING)	ACTION ITEMS
◆	CVTT 1471 – Peripheral Vascular Studies, Radiologic Principles, and RCIS Board Review	<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 <ul style="list-style-type: none"> ○ Meet with the Health Occupations Admissions Office to apply for the Invasive Cardiovascular Technology Advanced Technical Certificate. <input type="checkbox"/> Join the Alumni Network!
◆	CVTT 2563 – Clinical-Cardiovascular Technology/Technologist	

TOTAL SEMESTER CREDIT HOURS: 9

CERTIFICATE MINIMUM: 31 SEMESTER CREDIT HOURS | PATHWAY TOTAL: 31 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 Invasive Cardiovascular Technology Advanced Technical Certificate program, 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](#).