

**HEALTH SCIENCES**

**GUIDED PATHWAY: INVASIVE CARDIOVASCULAR TECHNOLOGY**

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

This is an example course sequence for students interested in pursuing Invasive Cardiovascular Technology. 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 Invasive Cardiovascular Technology <sup>ii</sup>. For official degree requirements, [click here](#).

The Invasive Cardiovascular Technology program is a two-year AAS degree program with 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, angiocardiology, 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. 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.



**ONLY Offered at ECC**

**COLLEGE READINESS REQUIREMENTS (only for the AAS)**

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

**READING & WRITING PLACEMENT**

**MATH PLACEMENT**

**ENGLISH LANGUAGE PROFICIENCY**

TSI READING MET:  YES  NO  
TSI WRITING MET:  YES  NO

TSI MATH MET:  YES  NO

ENGLISH PROFICIENCY:  YES  NO

IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED

DREA/DWRI/DIRW (Circle One)

DMAT \_\_\_\_\_

ESOL \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

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

**PROGRAM SPECIFIC REQUIREMENTS <sup>iii</sup>**

Completion of one of the following:

- 1  Completion of six Health Professions Readiness courses that satisfy the Health Professions Readiness I & II Skills Achievement Awards.
- 2  Two years' employment as a healthcare worker within a medical related laboratory **AND** Direct patient care experience within the last 5 years
- 3  Current credential in a healthcare profession (e.g., RN, Medical Assisting, Radiography, Paramedic, LVN, etc.)

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

All plans can be modified to fit the needs of part-time students

D	SEMESTER 1 (FALL)	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. <input type="checkbox"/> Meet with a career advisor or coach to research your career options.
♦	BIOL 2401 – Anatomy and Physiology I <sup>v</sup> (core course)	
♦	MATH 1314 – College Algebra (core course)	
♦	HUMA 1315 – Fine Arts Appreciation <sup>vi</sup> (core course)	

**TOTAL SEMESTER CREDIT HOURS: 13**

D	SEMESTER 2 (SPRING)	ACTION ITEMS
♦	BIOL 2402 – Anatomy and Physiology II (core course)	<input type="checkbox"/> Meet with your advisor to file 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 Clinical course.
♦	SPCH 1311 – Introduction to Speech Communication (core course)	
♦	HIST 1301 – United States History I (core course)	
♦	PSYC 2301 – General Psychology (core course)	

**TOTAL SEMESTER CREDIT HOURS: 13**

D	SEMESTER 3 (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**

D	SEMESTER 4 (FALL)	ACTION ITEMS
♦	CVTT 1340 – Cardiovascular Pathophysiology	<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.
♦	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**

D	SEMESTER 5 (SPRING)	ACTION ITEMS
♦	CVTT 1471 – Peripheral Vascular Studies, Radiologic Principles, and RCIS Board Review	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. <ul style="list-style-type: none"> <li>o Meet with the Health Occupations Admissions Office to apply for the Invasive Cardiovascular Technology AAS.</li> <li>o Sign up for commencement.</li> </ul> <input type="checkbox"/> Join the <a href="#">Alumni Network!</a>
♦	CVTT 2563 – Clinical-Cardiovascular Technology/Technologist	
♦	PSYC 2314 – Lifespan Growth and Development	

**TOTAL SEMESTER CREDIT HOURS: 12**

**AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS | PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS**

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 Invasive Cardiovascular Technology 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.