CARDIOVASCULAR TECHNOLOGY A.A.S. (CAREER) - HOWARD COMMUNITY COLLEGE

Mid-Maryland Allied Healthcare Education Consortium

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Program Description

Prepares students to enter the allied health career field of cardiovascular technology to gather data and perform various cardiac and/or vascular diagnostic tests and procedures under the direction of a physician. The invasive technologist may be found in cardiac catheterization, blood gas, and electrophysiology laboratories. Working in the cardiac catheterization laboratory, operating area, and/or electrophysiology, the technologist utilizes x-ray and monitoring equipment in performing invasive diagnostic tests to determine the condition of the patient's heart. New therapeutic steps may be taken to treat an existing condition during the catheterization procedure. The program is accredited by the Joint Commission on Accreditation of Allied Health Education Programs. Graduates may apply to take the national certification examination to become a registered cardiovascular invasive specialist (RCIS).

This program is offered to Frederick Community College students through the Mid-Maryland Allied Healthcare Education Consortium. Students will typically complete most of the general education classes at Frederick Community College and then matriculate to Howard Community College to complete the Cardiovascular Technology courses. Students participating in consortium programs pay in-county rates at the institutions to which they matriculate. Contact Robin A. Becker-Cornblatt, assistant director of admissions, nursing and allied health programs at Howard Community College, 410.772.4137 or rbcornblatt@howardcc.edu for information.

Program Requirements

Code	Title	Credits
English		
ENGL 101	English Composition [1]	3
Mathematics		
MATH 101	Foundations of Mathematics (or higher)	3
or MATH 120	Statistics	
or MATH 145	College Algebra	
Social & Behavioral Sciences		
SOCY 101	Introduction to Sociology	3
Arts & Humanities		
COMM 101	Introduction to Communication Studies	3
or COMM 103	Public Speaking	
Biological & Physical Sciences		
BSCI 150	Principles of Biology I	4
or BSCI 223	Microbiology for Allied Health	
BSCI 201	Anatomy and Physiology I	4
BSCI 202	Anatomy and Physiology II	4
PHYS 121	Fundamentals of Physics I (Fall)	4
Cardiovascular Technology [2]		
CARD 120	Rhythm Analysis and 12-lead ECG	2
CARD 121	Cardiovascular Assessment Skills Lab	3
CARD 122	Cardiac Anatomy and Pathophysiology	3
CARD 123	Hemodynamics	3
CARD 124	X-Ray Theory for Cardiovascular Technology	3
CARD 201	Cardiovascular Pharmacology	2
CARD 220	Cardiovascular Procedures	2
CARD 221	Diagnostic and Interventional Procedures	5
CARD 222	Advanced Intravascular Interventional Procedures	2
CARD 223	Registry Exam Preparation	2
CARD 231	Clinical Practicum I	3
CARD 261	Clinical Practicum II	7
Total Credits		65

1

Students must earn a grade of "C" or better in ENGL 101 English Composition.

2

Courses offered at Howard Community College.

A grade of "C" or better is required in cardiovascular, mathematics, and science courses. Admission to the cardiovascular technology program is based upon successful completion of specific courses in the degree program. Contact Howard Community College admissions office to schedule an information session regarding the cardiovascular technology program.

Transfer Note

For more information on careers and transfer, contact the Career and Academic Planning Services office at 301.846.2471 or visit Transfer Services (https://www.frederick.edu/student-resources/counseling-advising/transfer-services.aspx).