

# GET STARTED ON AN IN-DEMAND CAREER.



## CARDIAC SONOGRAPHY Associate of Applied Science

For the program's first year, students apply what they learn in the classroom in a fully functional sonography lab. For the second year, students continue to take classes while gaining more than 1,200 hours of clinical education at a number of regional clinical facilities.

Cardiac sonography is a diagnostic procedure that uses high frequency sound waves (ultrasound) to produce dynamic visual images of the heart. A sonographer's scope of practice includes operating imaging equipment, identifying normal and abnormal imaging results, preparing patients for procedures and reviewing patient medical history.

To practice as a Cardiac Sonographer, graduates must pass national certification examinations through the American Registry for Diagnostic Medical Sonographers (ARDMS) or Cardiovascular Credentialing International (CCI).

### JOB OPPORTUNITIES

According to the U.S. Bureau of Labor Statistics, the job outlook for Cardiac Sonographers through 2032 will increase 10 percent which is much faster than average. Cardiac Sonographers often work in hospitals, physician offices or clinics and may be required to be on-call. Career advancement opportunities exist in education, administration, research, advanced practice and in commercial companies as education/application specialists or sales representatives.

### SALARY

Entry-level graduates, working full time, can expect to earn \$63,000-\$68,000 per year. According to U.S. Bureau of Labor Statistics, the median salary in 2022 for cardiovascular technologists was \$78,210. Salary will depend on practice setting, years of experience and geographical location.

### TRANSFER PARTNERS

Additional opportunities, such as employment in the areas of clinical supervision, education, administration and business, may be available for those who have earned a bachelor's degree. Owens Community College has articulation agreements with Bowling Green State University, Mercy College, Ohio University, University of Cincinnati and Siena Heights. Appointments can be scheduled with advisors from these institutions by calling (567) 661-7777.

### LOCATION

Toledo-area Campus

### PREREQUISITES, CO-REQUISITES AND ELECTIVE INFORMATION

Acceptance into this program is selective. Please see an advisor to answer your selective admissions questions. Clinical placement requires that students submit documentation of a completed health examination and background check.

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Office of Admissions  
Toledo-area Campus - (567) 661-7777

School of Nursing and Health Professions  
Sonography Department  
(567) 661-7618



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# PROGRAM CURRICULUM

## CARDIAC SONOGRAPHY Associate of Applied Science

### REQUIRED COURSES

The Age of Coursework for Diagnostic Medical Sonography (DMS) and Medical Imaging Technology (MIT) courses is three years - chair approval required for courses beyond that. Please refer to College Policy, Chapter 2 - Academic, 3358:11-2-22 Age of Coursework Policy.

All Diagnostic Medical Sonography (DMS) and Medical Imaging Technology (MIT) courses must be completed within three years from initial entrance into the program. All courses must be completed with a grade of "C" or better or the student will be academically withdrawn.

#### 1ST SEMESTER - SUMMER

BIO 211	Anatomy & Physiology I*	Credits: 4(Lec: 3 Lab: 3)
ENG 111	Composition I*	Credits: 3(Lec: 3)
	or	
ENG 111P	Composition I Plus *	Credits: 4(Lec: 4)
MTH 133	Quantitative Reasoning*	Credits: 3(Lec: 3)
MIT 106	Intro to Basic Physics for Sonographers	Credits: 2(Lec: 2)
MIT 105	Ultrasound Basics	Credits: 1(Lec: 0.5 Lab: 1.5)
MIT 107	Cardiac Testing	Credits: 1(Lec: 0.5 Lab: 1.5)

#### 2ND SEMESTER - FALL

BIO 212	Anatomy & Physiology II*	Credits: 4(Lec: 3 Lab: 3)
DMS 101	Ultrasound Physics	Credits: 3(Lec: 3)
DMS 113	Cardiac Ultrasound I	Credits: 3(Lec: 2 Lab: 3)
HIT 125	Language of Medicine	Credits: 3(Lec: 3)

#### 3RD SEMESTER - SPRING

DMS 104	Foundations for Clinical Ultrasound	Credits: 2(Lec: 2)
DMS 115	Cardiac Ultrasound II	Credits: 3(Lec: 2 Lab: 3)
SPE 102	Interpersonal Communications*	Credits: 3(Lec: 3)
PHL 102	Principles of Ethics*	Credits: 3(Lec: 3)
MIT 104	Medical Informatics	Credits: 1(Lec: 1)



#### 4TH SEMESTER - SUMMER

DMS 222	Cardiac Ultrasound Directed Practice I	Credits: 3(Lec: 0.5 Clinical: 16)
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#### 5TH SEMESTER - FALL

DMS 230	Cardiac Ultrasound III	Credits: 3(Lec: 3)
DMS 231	Cardiac Ultrasound for Peds	Credits: 1(Lec: 1)
DMS 223	Cardiac Ultrasound Directed Practice II	Credits: 3(Lec: 0.5 Clinical: 16)
DMS 224	Cardiac Ultrasound Directed Practice III	Credits: 3(Lec: 0.5 Clinical: 16)

#### 6TH SEMESTER - SPRING

DMS 232	Cardiac Ultrasound IV	Credits: 3(Lec: 3)
DMS 225	Cardiac Ultrasound Directed Practice IV	Credits: 3(Lec: 0.5 Clinical: 16)
DMS 226	Cardiac Ultrasound Directed Practice V	Credits: 3(Lec: 0.5 Clinical: 16)
DMS 210	Capstone Seminar	Credits: 2(Lec: 2)

\*Ohio Transfer Module Course

More information about the Ohio Transfer Module Course can be found at [www.ohiohighered.org/transfer/transfermodule](http://www.ohiohighered.org/transfer/transfermodule)

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