Diagnostic Medical Sonography Technology
General Major / Cardiovascular Major

COTC awards the Associate of Applied Science to graduates of Diagnostic Medical Sonography Technology. The college offers two majors:

- **General** (Abdominal, Obstetrical and Gynecological)
- **Cardiovascular** (Adult Echocardiography and Vascular)

**Learning Outcomes**
The program goal is to prepare competent entry-level general and/or cardiovascular sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

- Utilize oral and written communication
- Provide basic patient care and comfort
- Demonstrate knowledge and understanding of human gross anatomy and sectional anatomy
- Demonstrate knowledge and understanding of physiology, pathology, and pathophysiology
- Demonstrate knowledge and understanding of acoustic physics, Doppler ultrasound principles, and ultrasound instrumentation
- Demonstrate knowledge and understanding of the interaction between ultrasound and tissue and the probability of biological effects in clinical examinations
- Employ professional judgment and discretion
- Understand the fundamental elements for implementing a quality assurance and improvement program, and the policies, protocols, and procedures for the general function of the ultrasound laboratory

- Recognize the importance of continuing education
- Recognize importance of, and employ, ergonomically correct scanning techniques

**Important Student Characteristics**
- Communication skills
- Detail-oriented & organized
- Strong math & science skills
- Team player & professional

**Sonography Lab**
COTC maintains a dedicated lab with sonographic equipment, so that students are able to practice real-time scanning skills.

**Selection**
Students must apply and be selected for COTC’s highly competitive Diagnostic Medical Sonography program. Selection occurs once a year in May.

**Before Selection**
Prior to being selected into the program, students can enroll in courses that will count toward degree completion. These include general education as well as some medical courses which can enhance students’ skills, enabling them to become more competitive. Before being selected, students may enroll part or full time. Some courses are offered online, evenings or weekends.

**After Selection**
Beginning in the autumn, students begin courses specific to their major: General or Cardiovascular. Program courses are sequential and conducted during daytime only. These courses are lockstep; they must be completed in the semester they are offered. Three clinical courses provide students with ample hands-on training at hospital sites. In addition, after shadowing a registered sonographer, students perform the same procedures under the sonographer’s guidance. Therefore, COTC students graduate with confidence grounded in experience.

**Admission/Selection Requirements**
Students upon meeting the general COTC admission requirements must meet the following specific requirements for selection into the Sonography Technology program. Selections are made on a competitive-selected process once a year. Minimum selection requirements completed and submitted by application deadline are:

- Submit online application to at cotc.edu/apply.
- COTC Placement Assessment and completion of any pre-college coursework, GENR 091, Math 080 or proof of waiver of the Placement courses.
- Attendance at a mandatory Medical Imaging/Sonography Information meeting, valid for 12 months.
- Submit official high school transcript* with date of graduation and cumulative GPA, or copy of GED certificate.
- Submit official college/university transcripts* from ALL colleges/universities previously and currently attended with GPA indicated.

**Program pre-requisite courses**
- Completion of Math 140 College Algebra
- Completion of BIO 130 Human Anatomy & Physiology I
- Completion of PHYS 100 General Physics
- Completion of ENGL 112 Composition I

See reverse side for more information
All courses (prerequisite and program courses) require a "C" grade or higher.

8 hours of documented observation for each major at a Cardiovascular and/or General Sonography site with (16 total) completion of Evaluation of Observation form (completed by clinical facility).** (Completed within 12 months of application deadline.)

Completion of Selection Exam (ATI TEAS). Scores valid for 12 months to application deadline. (www.cotc.edu/healthselectionexams)

Submit documentation of Federal Background Check (FBI). The FBI background check cannot be older than 6 months prior to the application deadline and must be sent directly to COTC from fingerprinting agency. The FBI may be obtained at the Security Office in the Warner Center on the Newark Campus (740.366.9237) for $35 or other local agencies.

Completed and signed date specific Sonography Application form postmarked no later than application deadline of May 15. DMS applications are available at any Gateway office. By submitting the DMS application by May 15, the student is verifying that all requirements and documentation are complete and will be on file with the Gateway by the deadline of May 15. If any requirements are not met or required documentation not received by this application deadline, the application will be pulled from the selection process. Students will have the opportunity to re-apply for the next deadline.

*Submit transcripts and all required DMS application documentation to:
  Central Ohio Technical College
  Attn: Student Records
  1179 University Drive
  Newark, OH 43055

**Forms can be found on the Diagnostic Medical Sonography website: http://www.cotc.edu/Academics/Pages/Diagnostic-Medical-Sonography-Technology.aspx

Selection into the Sonography program is a competitive process based on multiple metrics including application requirements, TEAS scores, GPA, and evaluations.

Career Opportunities
Graduates find work with:
- Hospitals
- Outpatient centers
- Physician offices
- Private imaging centers
- Mobile diagnostic companies

How do I Start?
New students can complete the free online application for admission at cotc.edu/apply. Current or returning students can contact The Gateway at any of our four campus locations for your next steps.

The Gateway:
Newark Campus
  740.366.9222
  800.963.9275
Coshocton Campus
  740.622.1408
Knox Campus
  740.392.2526
Pataskala Campus
  740.755.7090
cotc.edu/gateway

COTC Admissions:
cotchadmissions@cotc.edu
COTC Academic Advising:
cotcadvising@cotc.edu

Faculty Advisors can be reached during the academic year from August to May.

Accreditation/Membership
The Diagnostic Medical Sonography Program at Central Ohio Technical College is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of The Joint Review Committee on Education in Diagnostic Medical Sonography.

Central Ohio Technical College is accredited by The Higher Learning Commission and is a member of the North Central Association.

COTC is also a member of the American Association for Higher Education, the American Association of Community Colleges, the American Council on Education, the American Technical Education Association, Inc., the Ohio Association of Two-Year Colleges and the Ohio College Association.

Non-Discrimination Statement
Central Ohio Technical College is committed to building and maintaining a diverse community to reflect human diversity, and to improve opportunities for all. The college is committed to equal opportunity and eliminating discrimination. This commitment is both a moral imperative consistent with an intellectual community that celebrates individual differences and diversity, as well as matter of law. Central Ohio Technical College does not discriminate on the basis of age, ancestry, color, disability, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, sexual orientation, protected veteran status, or any other basis under the law, in its activities, programs, admission and employment. General information, questions, concerns or complaints related to these matters are to be directed to the Title IX Coordinator Holly Mason, Warner Center, Suite 236, Ohio State Newark/COTC, 1179 University Drive, Newark, Ohio 43055-1797 (740.364.9578) or ADA/504 Coordinator Connie Zang at the same location.

September 2018