

Central Ohio Technical College - 2014-2015 Academic Year
 Plan of Study for the Associate of Applied Science Degree in
**Diagnostic Medical Sonography Technology -
 Cardiovascular Major**

Datatel Program Code	DMSCV.AAS
COTC Major Number	005042
CIP Code	51.0910

PRE-ADMISSION COURSE REQUIREMENTS FOR DMSCV.AAS program

The DMS - Cardiovascular Major AAS program is a selection-based program, meaning a student must APPLY to the program and then be SELECTED into the program before being able to meet graduation requirements. The following COTC courses (or their equivalents) must be completed prior to being admitted into the Diagnostic Medical Sonography program. All courses must be completed with a grade of C (2.00) or better.

Course Name	Course Title	Course Credit Hours	Weekly Contact Hours	Tech, Non-Tech or Elective	Semester(s) Course Offered	SEM Course Approved As A TAG, C-TAG or OTM	Equivalent Quarter Course	Equivalent Quarter Cr Hrs
BIO-110	Medical Terminology	2.00	2.00	T	SM,AU,SP	TAG	BIO-1760	2.00
* ENGL-112	Composition I	3.00	4.00	NT	SM,AU,SP	OTM	COM-1535	4.00
* MATH-140	College Algebra	3.00	3.00	NT	SM,AU,SP	OTM	MTH-1215	5.00

The student who successfully completes the courses listed below on this Plan of Study will earn an Associate of Applied Science Degree in Diagnostic Medical Sonography Technology, Cardiovascular Major and be eligible to sit for the National credentialing examinations.

A grade of C (2.00) or better is required for all courses listed on this Plan of Study in order to continue in and graduate from the Diagnostic Medical Sonography Technology program.

Policies of the Diagnostic Medical Sonography Technology program which are unique in regard to admission, re-admission, grading and promotion are available in the Student Handbook, Division of HealthTechnologies.

KEY: * Indicates this course has a prerequisite; please see the Course Description Section on the COTC Web Page
 NT - Indicates this course fulfills a Non-Technical Course Requirement on this Plan of Study
 NT Elec - Indicates Elective Choice in the Non-Technical course requirement category
 T - Indicates this course fulfills a Technical Course Requirement on this Plan of Study
 T Elec - Indicates Elective Choice in the Technical course requirement category

TAG, C-TAG, OTM - Designation in this column indicates this course has been approved by the Ohio Board of Regents as a Transfer Assurance Guide (TAG), Career Technical Assurance Guide (C-TAG), or Ohio Transfer Module (OTM) course. Please follow this link on the COTC web site for more information: <http://www.cotc.edu/current-students/tags-transfer-module/Pages/index.aspx>

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SEMESTER 1								
* BIO-130	Anatomy & Physiology I	4.00	5.00	NT	SM,AU,SP	----	BIO-1772	6.00
* DMS-100	Introduction to Sonography & Patient Care	2.00	2.00	T	AU	----	DMS-4050 & DMS-4514	2.00 & 1.00
* DMS-182	Cardiovascular Scan Lab I	2.00	6.00	T	AU	----	DMS-4552	2.00
* ENGL-113	Composition II	3.00	4.00	NT	SM,AU,SP	OTM	COM-1536	4.00
* PSY-100	Introduction to Psychology	3.00	3.00	NT	SM,AU,SP	TAG,OTM	BHS-1376	5.00
TOTAL CREDIT & CONTACT HOURS		14.00	20.00					

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SEMESTER 2								
* BIO-131	Anatomy & Physiology II	4.00	5.00	NT	SM,AU,SP	----	BIO-1773	6.00
* DMS-183	Cardiovascular Scan Lab II	2.00	6.00	T	SP	----	None	----
EMS-100	Basic Life Support (CPR) for the Healthcare Provider	0.50	0.50	NT	SM,AU,SP	----	EMS-4331	0.50
SOC-110	Cultural Diversity	3.00	3.00	NT	SM,AU,SP	TAG,OTM	BHS-1382	3.00
SPCH-100	Fundamentals of Communication	3.00	3.00	NT	SM,AU,SP	TAG	COM-1534	4.00
TOTAL CREDIT & CONTACT HOURS		12.50	17.50					

The College Reserves the Right to Change Curricula Without Notice.

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SEMESTER 3 (Summer)								
* DMS-110	Cross Sectional Anatomy	2.00	3.00	NT	SM	----	DMS-4511	3.00
* DMS-115	Current Issues in Healthcare	1.00	1.00	NT	SM	----	RAD-4046	2.00
* DMS-186	Principles of Clinical Cardiovascular Sonography	4.00	16.00	T	SM	----	DMS-4560	2.00
* DMS-240	Vascular Sonography I	3.00	3.00	T	SM	----	DMS-4577 & DMS-4578	3.00 & 3.00
* PHYS-100	General Physics	4.00	5.00	NT	SM,AU,SP	----	PHY-1721 & PHY-1726	5.00 & 5.00
	Non-Technical Elective	3.00	3.00	NT Elec	See Choices Listed Below			
	TOTAL CREDIT & CONTACT HOURS	17.00	31.00					
SEMESTER 4								
* DMS-200	Sonographic Physics & Instrumentation I	3.00	3.00	T	AU	----	DMS-4515	4.00
* DMS-230	Echocardiography I	3.00	3.00	T	AU	----	DMS-4571 & DMS-4572	3.00 & 3.00
* DMS-241	Vascular Sonography II	3.00	3.00	T	AU	----	DMS-4578 DMS-479	3.00 & 2.00
* DMS-287	Cardiovascular Clinical Sonography I	6.00	26.00	T	AU	----	DMS-4551	4.00
	TOTAL CREDIT & CONTACT HOURS	15.00	35.00					
SEMESTER 5								
* DMS-201	Sonographic Physics & Instrumentation II	3.00	3.00	T	SP	----	DMS-4517 & DMS-4519	2.00 & 3.00
* DMS-231	Echocardiography II	3.00	3.00	T	SP	----	DMS-4573	2.00
* DMS-232	Introduction to Pediatric Echocardiography	2.00	2.00	T	SP	----	DMS-4570	2.00
* DMS-288	Cardiovascular Clinical Sonography II	6.00	26.00	T	SP	----	DMS-4562, -4563 & -4564	4, 4 & 6
	TOTAL CREDIT & CONTACT HOURS	14.00	34.00					

Total Semester Credit Hours Required for Completion of Degree	72.50
<i>Non-Technical Required Semester Credit Hours</i>	30.50
<i>Technical Required Semester Credit Hours</i>	42.00

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Non-Technical Elective								
Total of 3.00 Semester Credit Hours Required to Complete this Degree								
BIO-115	Human Nutrition	3.00	4.00	NT Elec	SM,AU,SP	TAG	BIO-1764	3.00
* BIO-200	Microbiology	4.00	5.00	NT Elec	SM,AU,SP	OTM	BIO-1755	5.00
BUS-110	Introduction to Management	3.00	3.00	NT Elec	SP	----	BMT-2021	4.00
BUS-115	Introduction to Marketing	3.00	3.00	NT Elec	SP	TAG	BMT-2022	4.00
* BUS-235	Labor Relations	2.00	2.00	NT Elec	SP	----	BMT-2850	4.00
HSV-110	Chemical Dependency I	3.00	3.00	NT Elec	AU	----	HUM-5300	3.00
* PHIL-100	Critical Thinking	3.00	3.00	NT Elec	SM,AU,SP	OTM	BHS-1006	3.00
* PHIL-200	Introduction to Ethics	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1340	3.00
* PSY-200	Abnormal Psychology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1378	3.00
* PSY-230	Organizational Psychology	3.00	3.00	NT Elec	SM,AU,SP	----	BHS-1385	3.00
SOC-100	Introduction to Sociology	3.00	3.00	NT Elec	SM,AU,SP	TAG,OTM	BHS-1382	3.00
SPCH-210	Small Group Communication	3.00	3.00	NT Elec	SM,AU,SP	TAG	COM-1523	3.00

Technical Elective								
There are NO Technical Elective Credit Hours Required for this Program. The following courses are available should students be interested in enrolling after meeting the course prerequisites. These courses may be transferrable to the Oregon Institute of Technology (Oregon Tech) B.S. in Sonography programs.								
* DMS-301	Cardiovascular Physiology	3.00	3.00	T Elec		----	----	----
* DMS-302	Abdominal Vascular Disease & Testing	4.00	4.00	T Elec		----	----	----
* DMS-303	Survey of Abdominal Sonography	3.00	3.00	T Elec		----	----	----
* DMS-304	Survey of Echocardiography	3.00	3.00	T Elec		----	----	----
* DMS-305	Survey of Vascular Technology	3.00	3.00	T Elec		----	----	----
* DMS-306	Fetal, Neonatal & Pediatric Echocardiography	3.00	3.00	T Elec		----	----	----