

# DIAGNOSTIC MEDICAL SONOGRAPHY/VASCULAR TECHNOLOGY



Associate of Applied Science Degree  
10-526-5

The Diagnostic Medical Sonography/Vascular Technology Associate of Applied Science degree is designed to prepare students to use ultrasound as a medical procedure to view internal organs for diagnostic purposes. Ultrasound is radiation free and uses high frequency sound waves to produce medical images of organs, tissues, or blood flow inside the body. Upon successful completion of degree requirements, the student will be eligible to apply to take the American Registry of Diagnostic Medical Sonography examinations leading to credentials as a Registered Diagnostic Medical Sonographer (RDMS®) and Registered Vascular Technologist (RVT®).

The profession of diagnostic medical sonography includes general sonography, cardiac sonography, vascular technology, and various subspecialties. It requires critical thinking and good judgment to provide appropriate health care services. Sonographers / vascular technologists are highly skilled professionals qualified by education to provide patient services using diagnostic techniques under the supervision of a physician. Although most sonographers work in hospital based medical imaging departments performing abdominal, pelvic and vascular examinations or cardiology departments performing cardiac and vascular examinations, sonographers are also employed in dedicated vascular departments or obstetric departments, where specialized ultrasound examinations are performed, and many sonographers work outpatient clinics and mobile imaging services.

Upon successful completion of this program, students will be able to:

- Provide patient care and education
- Utilize acoustic physics, Doppler ultrasound principles, and ultrasound instrumentation
- Complete diagnostic sonographic exams
- Model professional behaviors and ethics
- Collaborate with members of the healthcare team

View the entire course listing (<http://catalog.blackhawk.edu/courses/>).

Courses Taken Prior to Program Entry		Credits
501-101	Medical Terminology	3
801-136	English Composition 1	3
804-134	Mathematical Reasoning	3
806-139	Survey Of Physics	3
806-177	General Anatomy and Physiology	4
<b>Credits</b>		<b>16</b>
<b>Semester 1 (Summer)</b>		
526-130	Introduction to Diagnostic Medical Sonography	2
<b>Credits</b>		<b>2</b>
<b>Semester 2 (Fall Year 1)</b>		
526-131	DMS General Procedures 1	4
526-132	DMS Clinical 1	2
526-134	DMS Clinical 2	2
526-136	DMS Physics I	3
526-205	DMS Vascular 1	2
<b>Credits</b>		<b>13</b>
<b>Semester 3 (Spring Year 1)</b>		
526-133	DMS General Procedures 2	4
526-137	DMS Clinical 3	2
526-139	DMS Physics 2 Instrumentation	2
526-206	DMS Vascular 2	2
809-196	Introduction to Sociology	1-3
<b>Credits</b>		<b>11-13</b>
<b>Semester 4 (Summer)</b>		
526-135	DMS General Procedures 3	3
526-140	DMS Clinical 4	1
<b>Credits</b>		<b>4</b>

**Semester 5 (Fall Year 2)**

526-138	DMS General Procedures 4	4
526-142	DMS Clinical 5	2
526-245	DMS Vascular 3	3
801-198	Speech	1-3
<b>Credits</b>		<b>10-12</b>

**Semester 6 (Spring Year 2)**

526-144	DMS Clinical 6	2
526-145	DMS Registry Review	2
526-246	DMS Vascular 4	1
526-247	DMS Capstone Seminar	1
809-198	Introduction to Psychology	1-3
<b>Credits</b>		<b>7-9</b>
<b>Total Credits</b>		<b>63-69</b>

**General Education Courses Within Program**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
801-136	English Composition 1	3
801-198	Speech	3
804-134	Mathematical Reasoning	3
806-139	Survey Of Physics	3
806-177	General Anatomy and Physiology	4
809-196	Introduction to Sociology	3
809-198	Introduction to Psychology	3